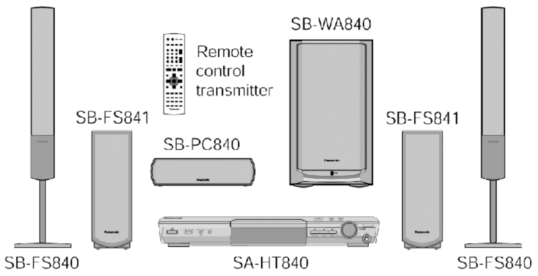
ORDER NO.MD0502026C2

DVD Home Theater Sound System

SA-HT840EB

Colour

(S).......................Silver Type


SB-WA840
Remote control transmitter
SB-FS841
SB-PC840
SB-FS841
SB-FS840
SA-HT840
SB-FS840

● General

Power Source:	AC 230-240 V, 50 Hz
Power consumption:	25 W
Dimensions (W×H×D):	430×60×348.3 mm
Mass:	2.7 kg

● Amplifier section

RMS Output Power: Dolby Digital Mode	
● Total RMS Dolby Digital mode Power:	800 W
At 1kHz and total harmonic of 10%	
● Front:	70 W/ Channel (4 Ω)
● Center:	260 W/ Channel (4 Ω)
● Surround:	70 W/ Channel (4 Ω)
At 100Hz and total harmonic of 10%	
● Active subwoofers:	260 W/ Channel (4 Ω)
DIN Output Power: Dolby Digital Mode:	
● Total DIN Dolby Digital mode Power:	515 W
At 1kHz and total harmonic of 1%	
● Front:	45 W/ Channel (4 Ω)
● Center:	165 W/ Channel (4 Ω)
● Surround:	50 W/ Channel (4 Ω)
At 100Hz and total harmonic of 1%	
● Subwoofer:	160 W/ Channel (4 Ω)

● FM tuner section

Frequency Range:	87.5-108.0MHz (50kHz in step)
Sensitivity:	1.5 μ V (IHF)
S/N 26dB	1.2 μ V
Antenna Terminal:	75 Ω (non balance)

● AM tuner section (AM/MW)

Frequency Range:	522-1629kHz (9kHz in step)
AM Sensitivity S/N 20dB at 999kHz:	560 μ V/m

Phone Jack:	
Terminal:	Stereo 3.5mm jack

● Disc section

Discs played [8 cm or 12 cm]:

(1) DVD-RAM (DVD-VR compatible, JPEG formatted discs)
(2) DVD-Audio
(3) DVD-Video
(4) DVD-R, DVD-RW (DVD-Video compatible)
+R, +RW (Video compatible)

(5) CD-Audio (CD-DA)
(6) Video CD
(7) SVCD (Conforming to IEC62107)
(8) CD-R/CD-RW (CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted discs)
(9) MP3/WMA

● Maximum number of recognizable audio and picture contents and groups:

4000 audio and picture contents and 400 groups

● Compatible compression rate:

MP3: between 32 kbps and 320 kbps
WMA: between 48 kbps and 320 kbps

(10) JPEG

● Maximum number of recognizable audio and picture contents and groups:

4000 audio and picture contents and 400 groups

● Exif Ver 2.1 JPEG Baseline files

● Picture resolution: between 320 x 240 and 6144 x 4096 pixels (sub sampling is 4:2:2 or 4:2:0)

(11) HighMAT Level 2 (Audio and Image)

Pick up:

Source of light beam:	Semiconductor Laser
Wavelength:	
● CD:	785nm
● DVD:	662nm
Laser power:	CLASS 2/ CLASS 3A

Audio output (DISC):

Number of channels:	5.1 ch (FL, FR, C, SL, SR, SW)

Audio performance (measured at LINE OUT terminal):

Frequency response:	
DVD (linear audio):	10 Hz-22 kHz (48 kHz sampling) 10 Hz-44 kHz (96 kHz sampling)
DVD-Audio:	10 Hz-88 kHz (192 kHz sampling)
CD-Audio:	10 Hz-20 kHz
S/N ratio:	
CD-Audio:	95 dB
Dynamic range:	
DVD (linear audio):	95 dB
CD-Audio:	93 dB
Total harmonic distortion:	
CD-Audio:	0.005 %

● Video section

Video system:

Signal system: PAL 625/50, PAL 525/60, NTSC

Composite video output:

Output level: 1 Vp-p (75 Ω)

Terminal: Pin jack (1 system)

Scart jack (1 system)

S-video output:

Y output level: 1 Vp-p (75 Ω)

C output level: PAL; 0.3Vp-p (75 Ω)

NTSC; 0.286 Vp-p (75 Ω)

Terminal S terminal (1 system)

Scart jack (1 system)

Component video output (480P/480I):

Y output level: 1 Vp-p (75 Ω)

PB output level: 0.7 Vp-p (75 Ω)

PR output level: 0.7 Vp-p (75 Ω)

Terminal: Pin jack (Y: green, PB: blue, PR: red) (1 system)

RGB video output:

R output level: 0.7 Vp-p (75 Ω)

G output level: 0.7 Vp-p (75 Ω)

B output level: 0.7 Vp-p (75 Ω)

Terminal: Scart jack (1 system)

Power consumption in standby mode:

approx 0.7W

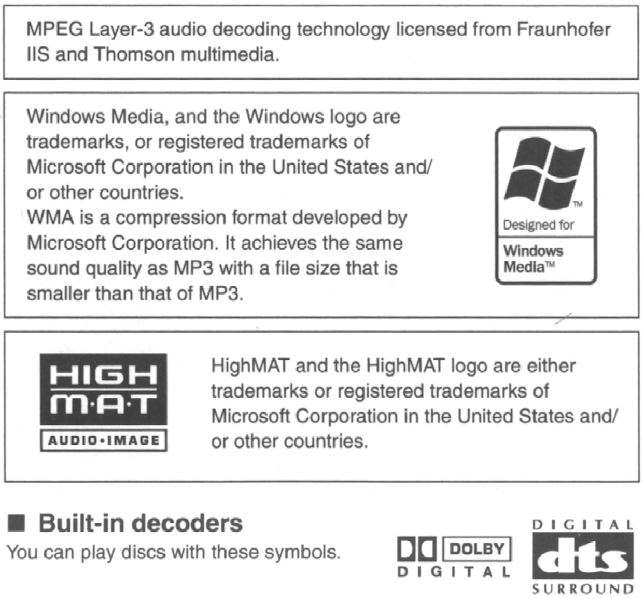
Note:

1. Specifications are subject to change without notice. Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Solder:

This model uses lead free solder (PbF).

system	**SC-HT840**
Main unit	**SA-HT840**
Front speakers	SB-FS840
Center speaker	SB-PC840
Surround speakers	SB-FS841
Active subwoofer	SB-WA840



MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.
WMA is a compression format developed by Microsoft Corporation. It achieves the same sound quality as MP3 with a file size that is smaller than that of MP3.

HighMAT and the HighMAT logo are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

■ **Built-in decoders**

You can play discs with these symbols.

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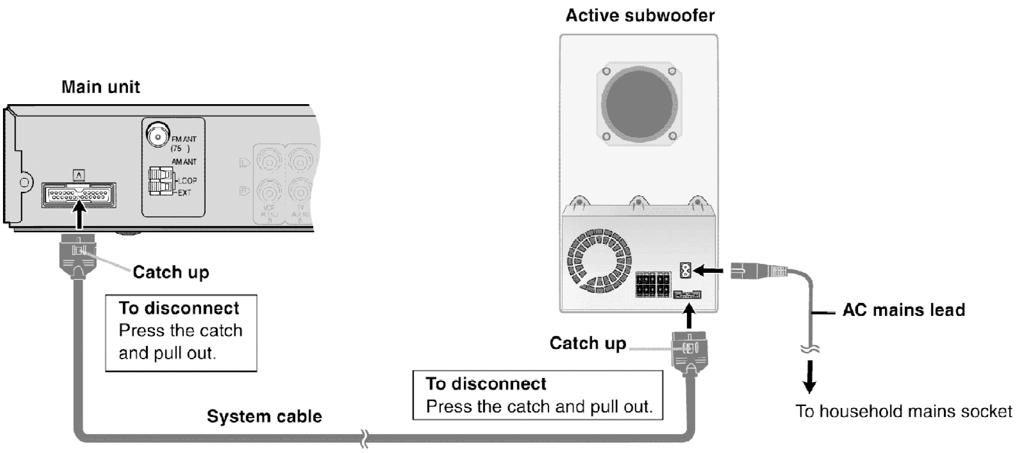
Panasonic

1. Use of Active Subwoofer

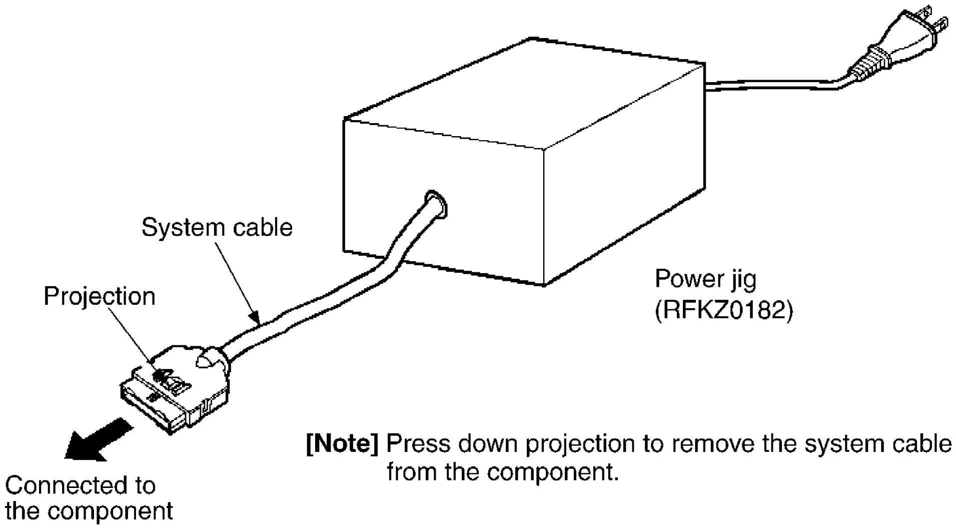
1.1. Checking Player when Active Subwoofer is not used

1. This unit uses the active subwoofer to supply the power of the component, and the active subwoofer should be connected to the

component to check operational conditions of the component.


Active subwoofer
Main unit
FM ANT
(75)
AM ANT
LOOP
EXT
Catch up
To disconnect
Press the catch and pull out.
System cable
Catch up
To disconnect
Press the catch and pull out.
AC mains lead
To household mains socket

2. **If the active subwoofer is not available due to repair of the unit, use the following equipment.**


System cable
Projection
Power jig
(RFKZ0182)
Connected to
the component

[Note] Press down projection to remove the system cable from the component.

Jig product number: RFKZ0182 (110V, 127V, 220V, 230V-240V for overseas domestic use)

2. Safety Precautions

2.1. GENERAL GUIDELINES

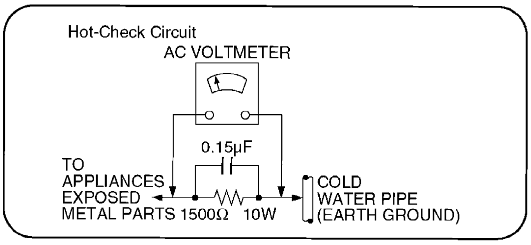
1. **When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**

3. After servicing, carry out the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2M Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Figure 1


Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

2.1.2. LEAKAGE CURRENT HOT CHECK (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A

leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

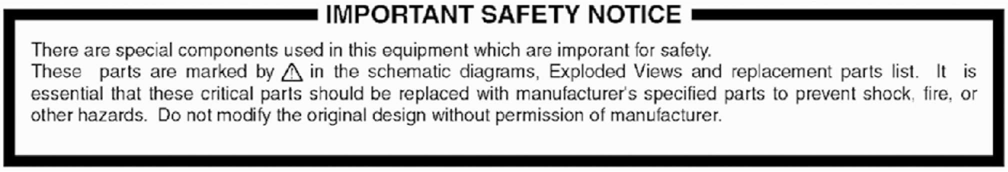
1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the**

leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).



IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. Before Repair and Adjustment (Using Active Subwoofer)

Disconnect AC power, discharge Power Supply Capacitors C546~C549 through a 10 Ω , 10 W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 230 V, 50 Hz in NO SIGNAL mode should be ~ 620 mA.

5. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
“shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

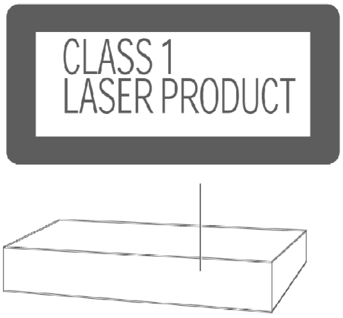
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

6. Precaution of Laser Diode

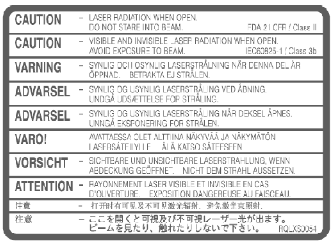
ON :

This product utilizers a class 1 laser. Invisible laser radiation is emitted from the optical pick up lens.
When the unit is turned on:
Wavelength : 662nm(DVD)/785nm(CD)
Maximum output radiation power from pick up : 100 μ W/VDE
Laser radiation from pick up unit is safety level, but be sure the followings:

1. **Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.**
2. **Do not adjust the variable resistor on the pick up unit. It was already adjusted.**
3. **Do not look at the focus lens using optical instruments.**
4. **Recommend not to look at pick up lens for a long time.**



(Back of product)



CAUTION	–	LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR / Class II
CAUTION	–	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. IEC60825-1 / Class 3b
VARNING	–	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	–	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
ADVARSEL	–	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARO!		AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VORSICHT	–	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENTION	–	RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
注意	–	打开时有可见及不可见激光辐射。避免激光束照射。
注意	–	ここを開くと可視及び不可視レーザー光が出ます。 ビームを見たり、触れたりしないで下さい。 RQLXS0054

(Inside of product)

CAUTION:
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

7. About Lead Free Solder (PbF)

Distinction of PbF PCB: PCBs (manufactured) using lead free solder will have a Pbf stamp on the PCB.

Caution:

- **Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**

- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

8. General Description

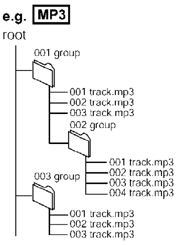
8.1. Operating instructions

8.2. Disc information

Tips for making WMA/MP3 and JPEG discs (For CD-R, CD-RW)

- Discs must conform to ISO9660 level 1 or 2 (except for extended formats).
- This unit supports multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- When there are more than 8 groups, the eighth group onwards will be displayed on one vertical line in the menu screen.
- There may be differences in the display order on the menu screen and computer screen.
- This unit cannot play files recorded using packet write.

Naming folders and files
(Files are treated as content and folders are treated as groups on this unit.)
At the time of recording, prefix folder and file names with 3-digit numbers in the order you want to play them (this may not work at times).
Files must have the extension:
".WMA" or ".wma"
".MP3" or ".mp3"
".JPG", ".jpg", ".JPEG" or ".jpeg"



WMA

- You cannot play WMA files that are copy protected.
- This unit does not support Multiple Bit Rate (MBR).

MP3

This unit does not support ID3 tags.
Compatible sampling rates: 8, 11.02, 12, 16, 22.05, 24, 32, 44.1 and 48 kHz.

JPEG

- To view JPEG files on this unit:
  - Take them on a digital camera that meets the DCF Standard (Design rule for Camera File system) Version 1.0. Some digital cameras have functions that are not supported by the DCF Standard Version 1.0 like automatic picture rotation which may render a picture un-viewable.
  - Do not alter the files in any way or save them under a different name.
- This unit cannot display moving pictures, MOTION JPEG and other such formats, still pictures other than JPEG (e.g. TIFF) or play pictures with attached audio.

8.3. About HighMAT

8.3.1. What's HighMAT?

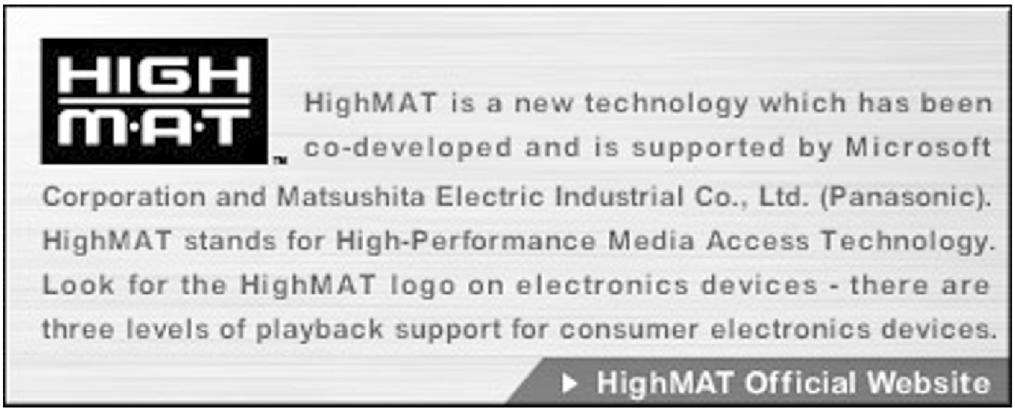
Consumers worldwide are using PCs to create their own collections of music, photos and even video by burning them onto CDs. But how these collections can be experienced across different devices can be confusing to navigate, time consuming to access for a DVD player, and be incomplete in terms of music information available to the customer.

HighMAT offers a solution to this growing consumer problem. HighMAT dramatically improves the digital media experience on consumer electronic devices by delivering a simple, standardized approach that allows consumers who have created personal collections of digital music, photography and video on their PC to:

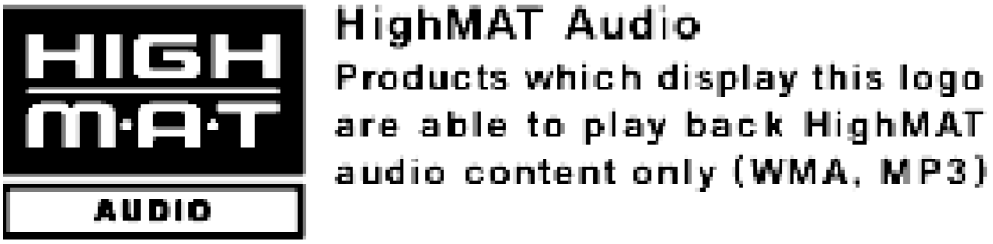
>> Create a HighMAT CD or DVD which can be easily played back on consumer electronics devices such as CD and DVD players, and car stereos.

>> Move digital media files (using recordable media such as CD-R and CD-RW) between the PC and various playback devices such as CD and DVD players.

A new standard for creating personal media on consumer electronic devices, HighMAT enable easier and more seamless interoperability between Windows PCs and devices designed for your living room, or the car.

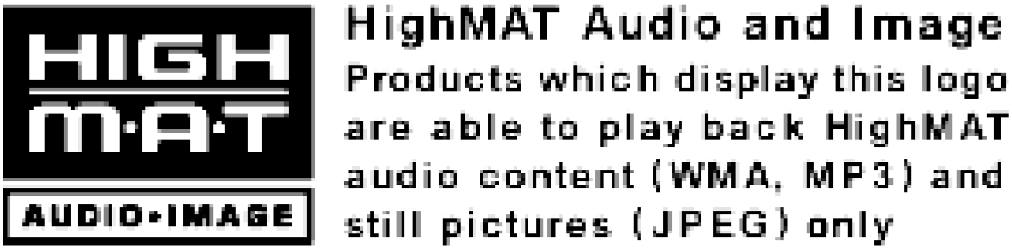


HighMAT is a new technology which has been co-developed and is supported by Microsoft Corporation and Matsushita Electric Industrial Co., Ltd. (Panasonic). HighMAT stands for High-Performance Media Access Technology. Look for the HighMAT logo on electronics devices - there are three levels of playback support for consumer electronics devices.



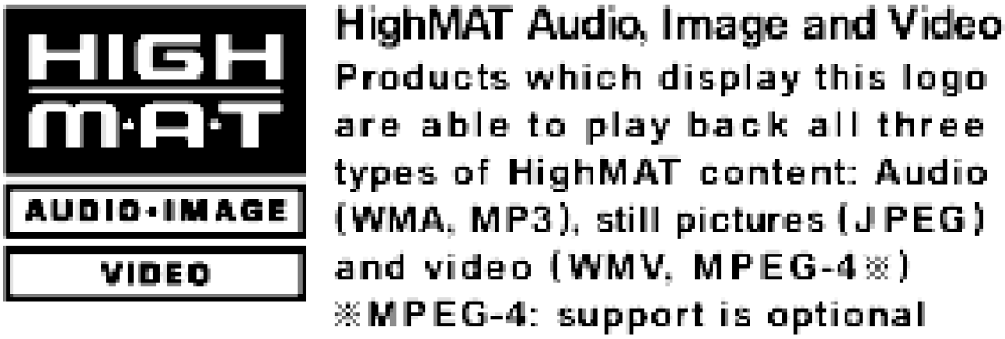
HighMAT Audio

Products which display this logo are able to play back HighMAT audio content only (WMA, MP3)



HighMAT Audio and Image

Products which display this logo are able to play back HighMAT audio content (WMA, MP3) and still pictures (JPEG) only



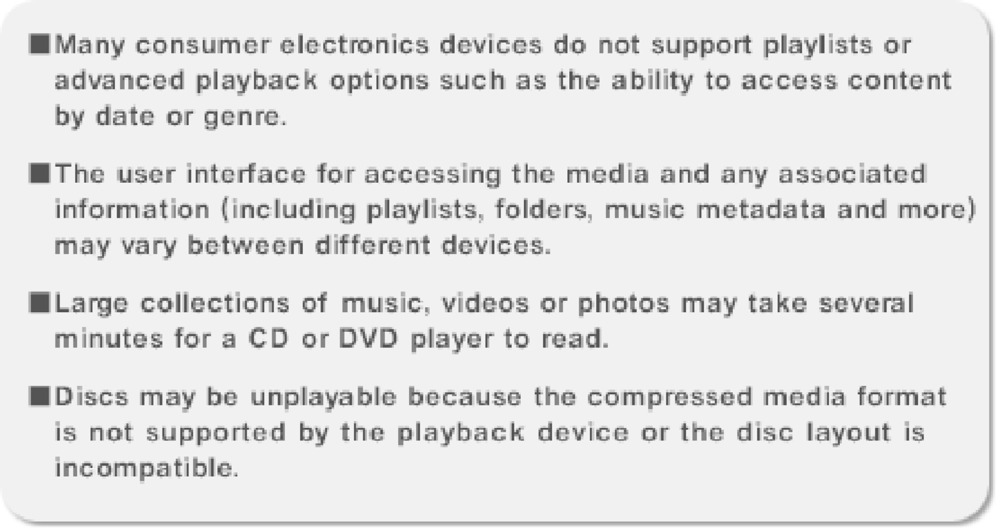
HighMAT Audio, Image and Video

Products which display this logo are able to play back all three types of HighMAT content: Audio (WMA, MP3), still pictures (JPEG) and video (WMV, MPEG-4※)

※MPEG-4: support is optional

8.3.2. Why take advantage of HighMAT?

A Problem Defined:Today, when consumers create their own digital audio, video or photo collections on CD-R or other physical formats, there are numerous, inconsistent ways that devices read the data. For the consumer, the playback experience can be confusing:

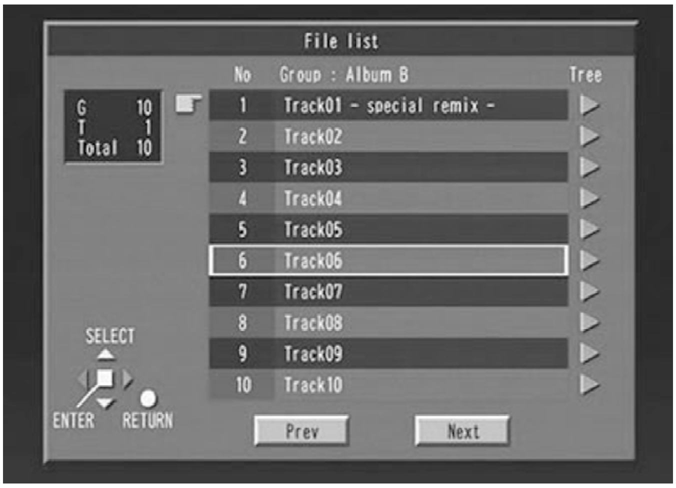
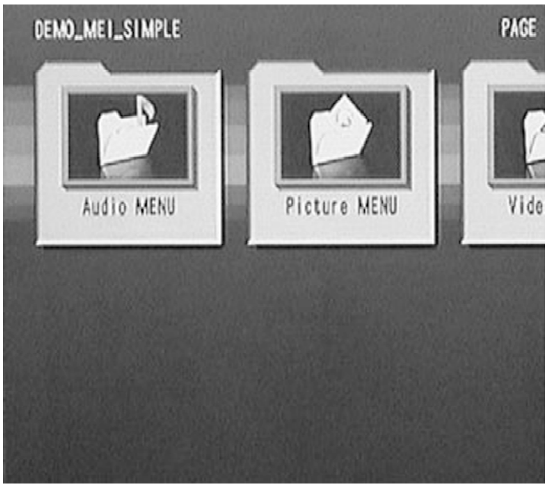


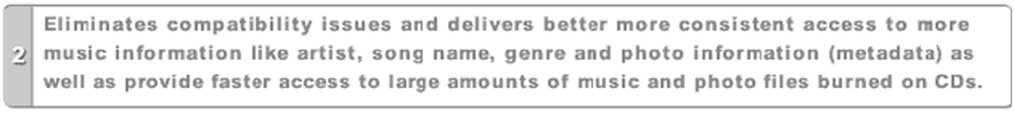
- Many consumer electronics devices do not support playlists or advanced playback options such as the ability to access content by date or genre.
- The user interface for accessing the media and any associated information (including playlists, folders, music metadata and more) may vary between different devices.
- Large collections of music, videos or photos may take several minutes for a CD or DVD player to read.
- Discs may be unplayable because the compressed media format is not supported by the playback device or the disc layout is incompatible.

A Solution Created: HighMAT delivers a better digital media access experience by creating a standard approach for PCs to structure digital media on various physical formats and for playback devices to read the data.

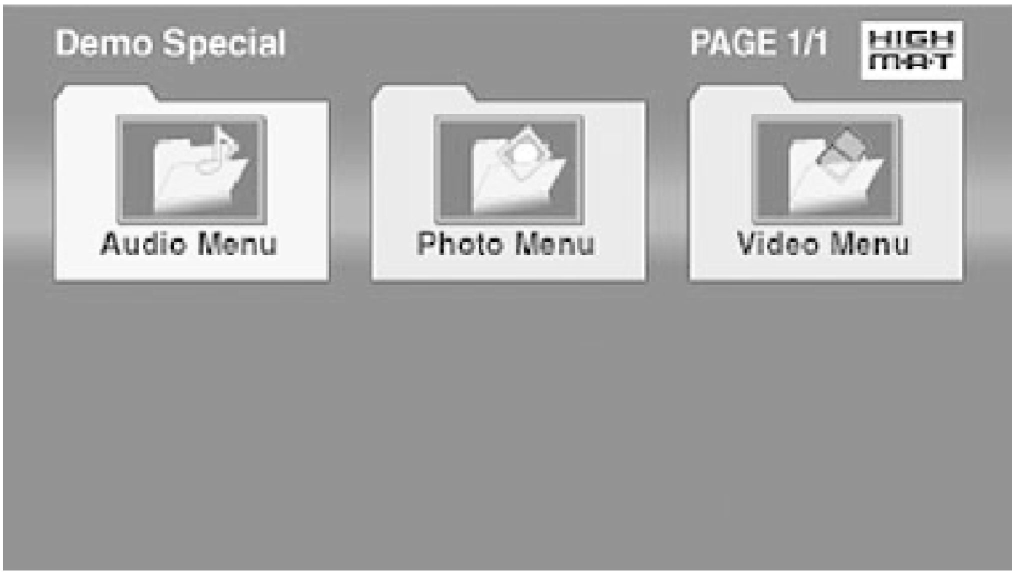
8.3.3. Benefits of HighMAT?

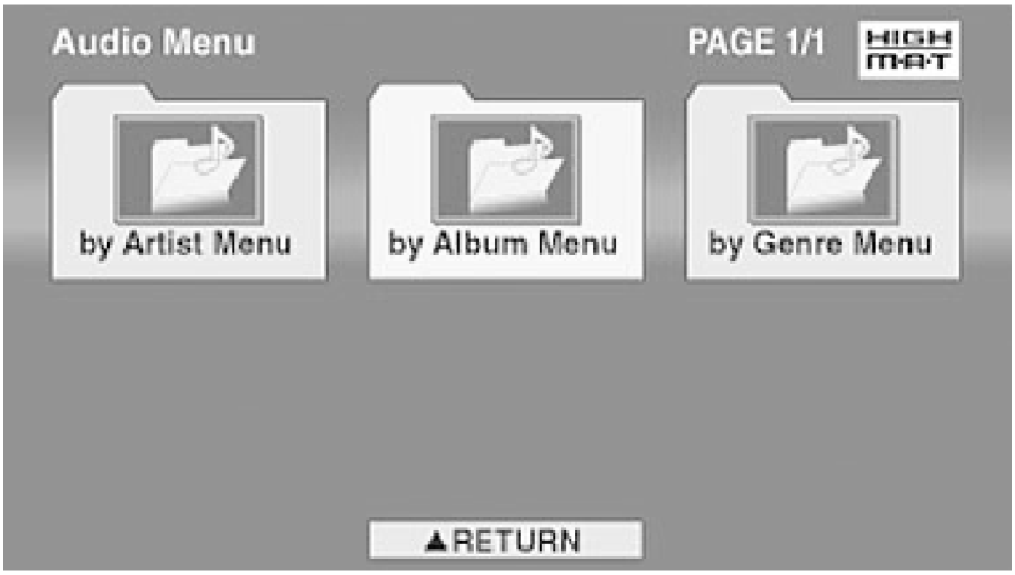
1 Creating a HighMAT CD makes it easier to navigate different types of media you want to burn onto a CD (Photos, Music).

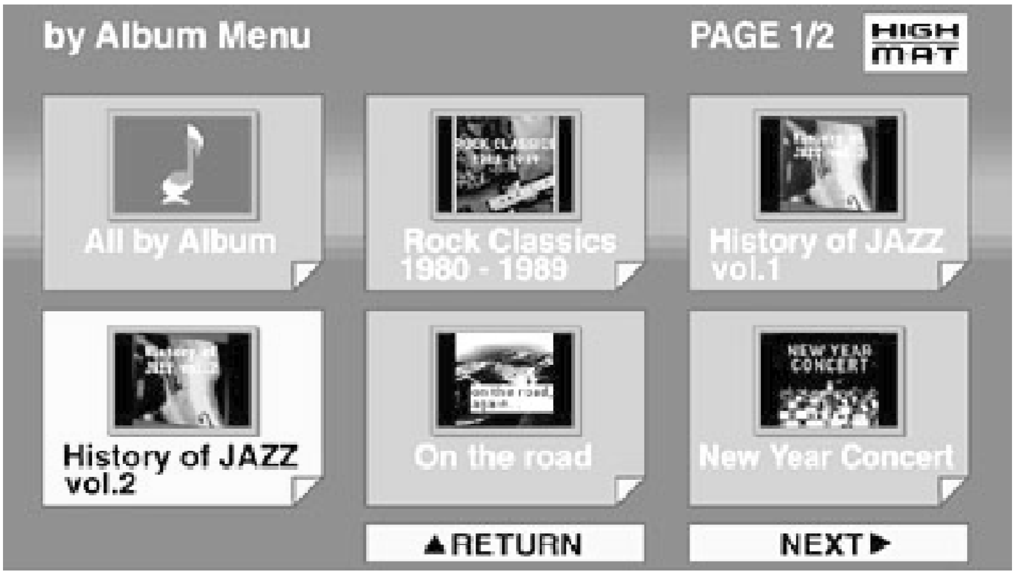
Conventional	HighMAT
Even though DVD player is CD-R/RW compatible, the inconsistent ways that various DVD players can read the music or photos files often leads to a confusing and inconsistant playback experince.	**HighMAT compatible products play content with consistent interface. This includes pro which are JPEG compatible products witho HighMAT support.**
 File list No Group : Album B Tree G 10 T 1 Total 10 1 Track01 - special remix - 2 Track02 3 Track03 4 Track04 5 Track05 6 Track06 7 Track07 8 Track08 9 Track09 10 Track10 SELECT ENTER RETURN Prev Next	 DEMO_MEI_SIMPLE PAGE Audio MENU Picture MENU Vide

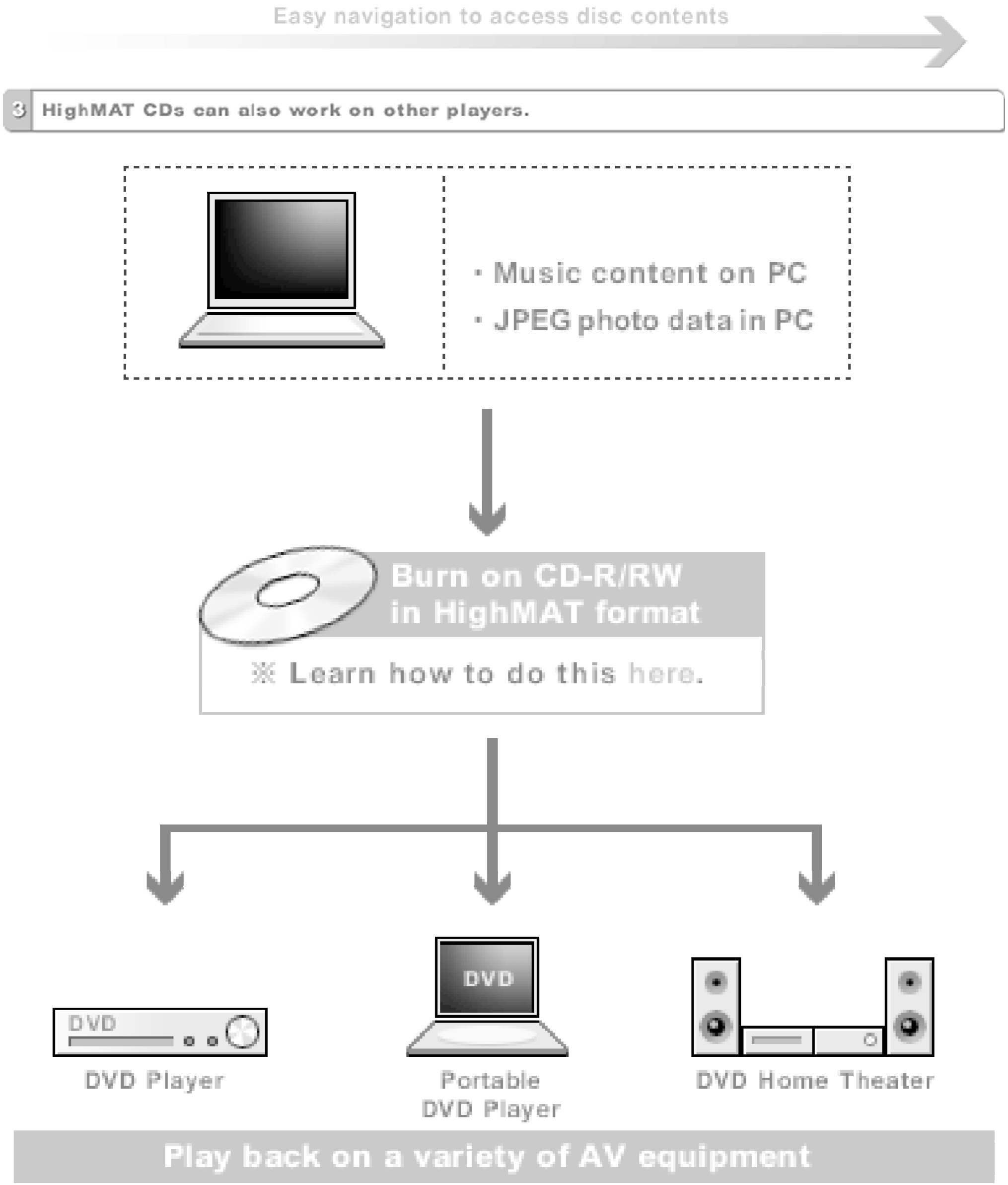


2 Eliminates compatibility issues and delivers better more consistent access to more music information like artist, song name, genre and photo information (metadata) as well as provide faster access to large amounts of music and photo files burned on CDs.


Demo Special
PAGE 1/1
HIGH MAT
Audio Menu
Photo Menu
Video Menu


Audio Menu
PAGE 1/1
HIGH MAT
by Artist Menu
by Album Menu
by Genre Menu
▲RETURN

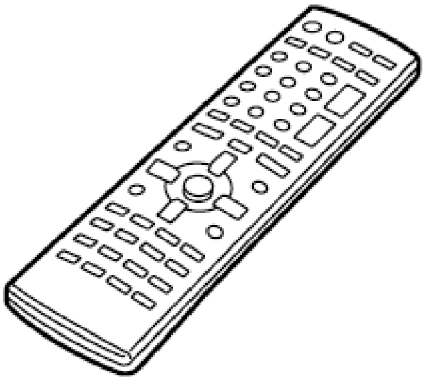

by Album Menu
PAGE 1/2
HIGH MAT
All by Album
Rock Classics 1980 - 1989
History of JAZZ vol.1
History of JAZZ vol.2
On the road
New Year Concert
▲RETURN
NEXT▶


Easy navigation to access disc contents
3 HighMAT CDs can also work on other players.
· Music content on PC
· JPEG photo data in PC
Burn on CD-R/RW in HighMAT format
※ Learn how to do this here.
DVD
DVD Player
DVD
Portable DVD Player
DVD Home Theater
Play back on a variety of AV equipment

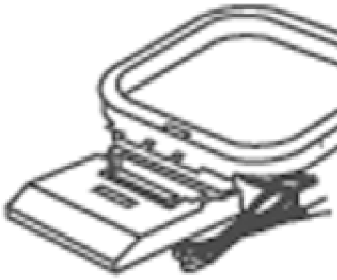
HighMAT is now available for CD Burning and in Leading DVD Players / HighMAT is a new technology that is now available in leading software and consumer electronic devices to dramatically improve the digital media experience when you create homemade CDs / HighMAT delivers a simple, standardized way for PC software and consumer electronics devices to talk to each other and work better together.
When you create your homemade CDs with software that supports HighMAT CD burning, and then play them back on a DVD player that supports HighMAT, you get better, easier navigation. You get folders you can access with a single click of your DVD player's remote control. You can view important information about your music like full song names, artist titles, album names and genre. And you can get faster startup on your home entertainment device.
To enjoy the benefits of HighMAT, all you need is software that supports HighMAT for CD burning of music or photos, as well as a home entertainment device like a DVD player that supports HighMAT for playback. Always look for the HighMAT logo on your software or home entertainment device to ensure it supports the HighMAT experience.

9. Accessories

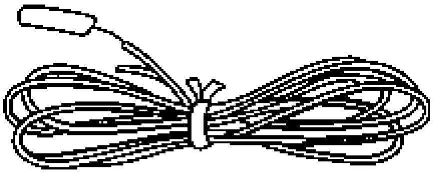
Remote control



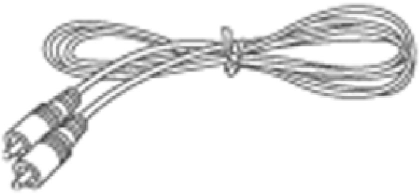
AM loop antenna



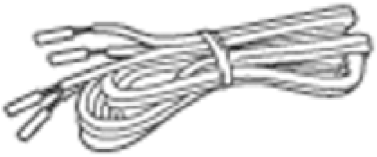
FM indoor antenna



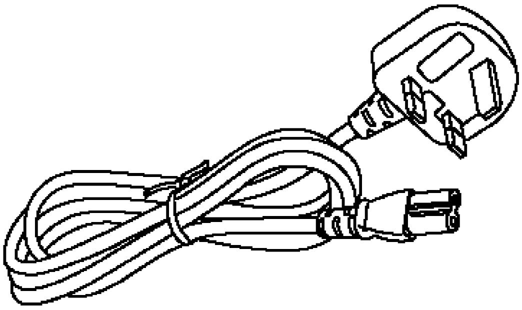
Video Cable



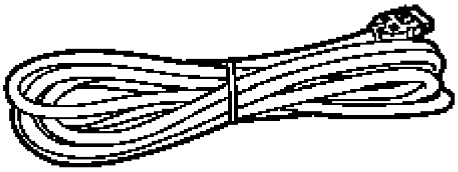
Speaker cables



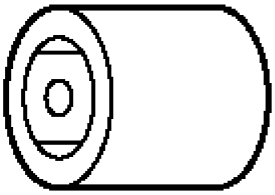
AC cord



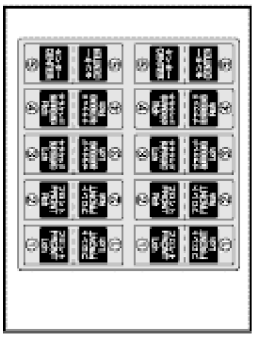
System cable



Antenna plug adaptor



Speaker label



10. Caution for AC Cord

(For United Kingdom)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

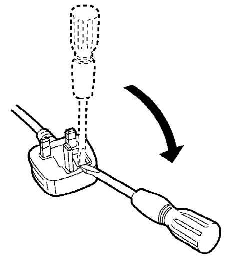
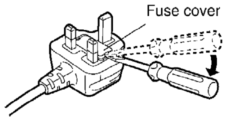


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

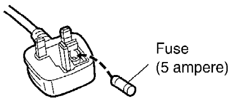
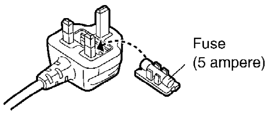


Figure B



11. Handling Precautions for Optical Pickup Unit

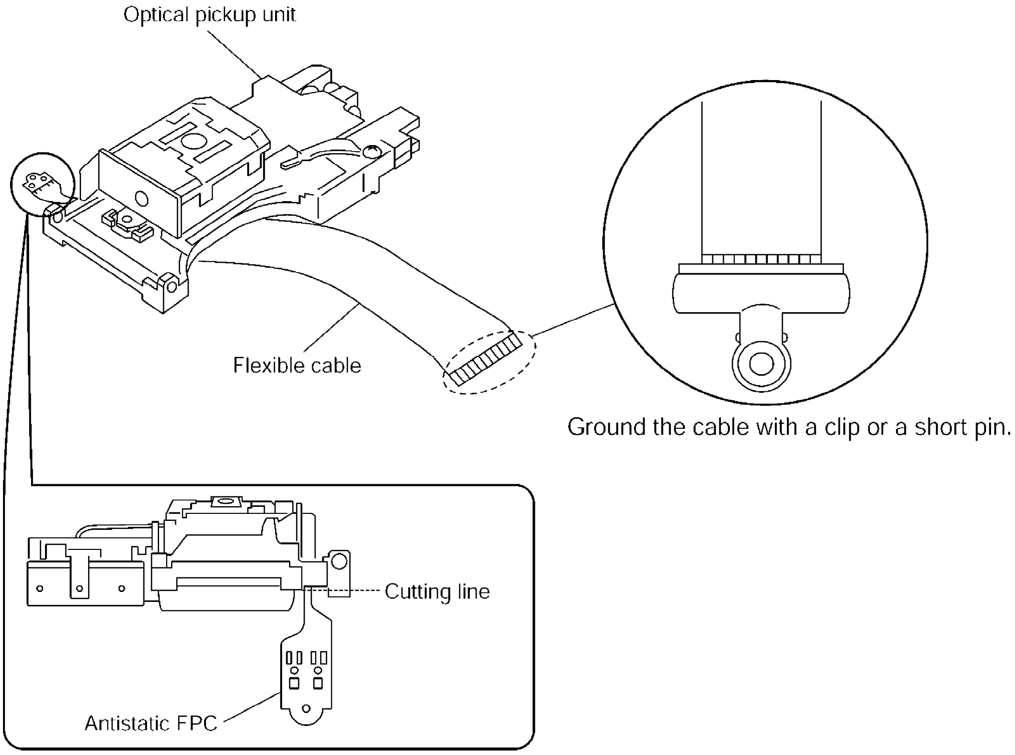
The laser diode in the optical pickup unit may break down due to static electricity of clothes or human body. Special care must be taken avoid to electrostatic breakdown when servicing and handling the laser diode.

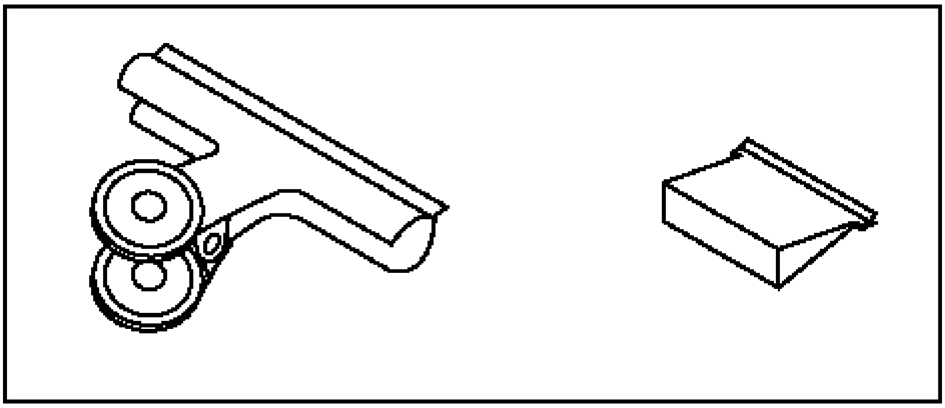
11.1. Cautions to Be Taken in Handling the Optical Pickup Unit

The laser diode in the optical pickup unit may be damaged due to electrostatic discharge generating from clothes or human body. Special care must be taken avoid to electrostatic discharge damage when servicing the laser diode.

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.

2. **To prevent the laser diode from the electrostatic discharge damage, the flexible cable of the optical pickup unit removed should be short-circuited with a short pin or a clip.**
3. **The flexible cable may be cut off if an excessive force is applied to it. Use with caution when handling the flexible cable.**
4. **The antistatic FPC is connected to the new optical pickup unit. After replacing the optical pickup unit and connecting the flexible cable, cut off the antistatic FPC.**


Optical pickup unit
Flexible cable
Ground the cable with a clip or a short pin.
Cutting line
Antistatic FPC



Clip or Short pin

11.2. Cautions to Be Taken When Replacing the Optical Pickup

The flexible cable of the optical pickup unit which was supplied as a component is equipped with a short clip to prevent the laser diode from being damaged due to electrostatic discharge. Remove the short clip before connecting the flexible cable and make sure that the short land is open. (If the flexible cable is short-circuited, remove the solder.)

11.3. Grounding for electrostatic breakdown prevention

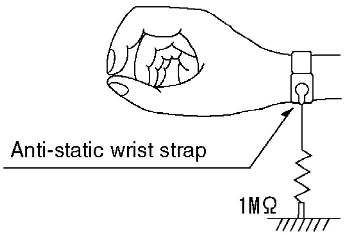
Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

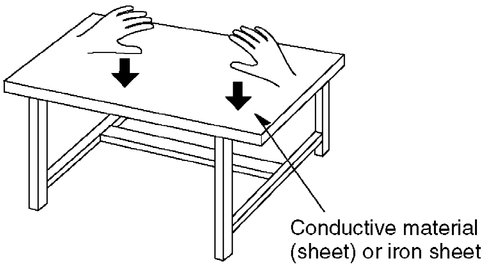
11.3.1. Worktable grounding

1. **Put a conductive material (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.**

11.3.2. Human body grounding

1. **Use the anti-static wrist strap to discharge the static electricity form your body.**





12. Disassembly and Main Component Replacement Procedure

“ATTENTION SERVICER”

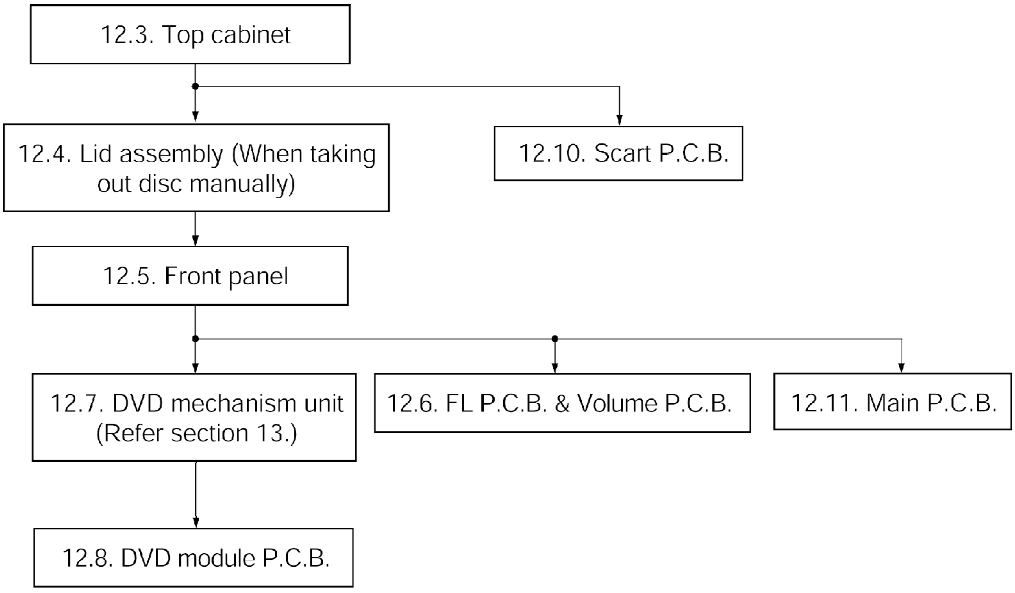
Some chassis components may have sharp edges.
Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For assembly after operation checks or replacement, reverse the respective procedures.**
   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

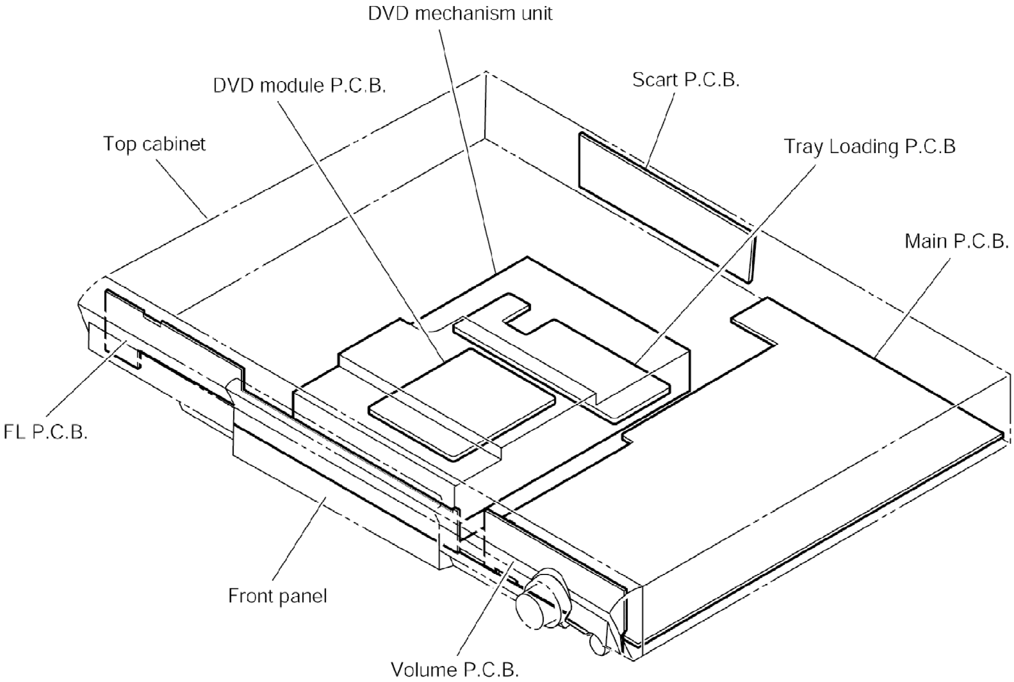
- **Disassembling the Top Cabinet**

- **Disassembling the Lid assembly (When taking out disc manually)**
- **Disassembling the Front Panel**
- **Disassembling the FL P.C.B. and Volume P.C.B.**
- **Disassembling the Mechanism Unit**
- **Disassembling the DVD Module P.C.B**
- **Disassembling the Rear panel**
- **Disassembling the Scart P.C.B.**
- **Disassembling the Main.P.C.B.**

12.1. Disassembly Procedure

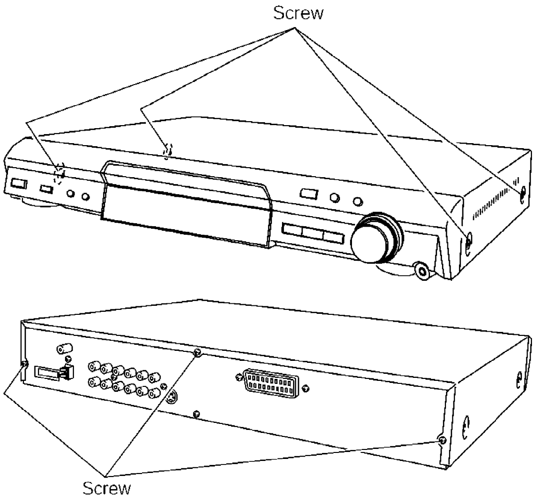

12.3. Top cabinet
12.4. Lid assembly (When taking out disc manually)
12.10. Scart P.C.B.
12.5. Front panel
12.7. DVD mechanism unit (Refer section 13.)
12.6. FL P.C.B. & Volume P.C.B.
12.11. Main P.C.B.
12.8. DVD module P.C.B.

12.2. Main Components and P.C.B. Locations.


DVD mechanism unit
DVD module P.C.B.
Scart P.C.B.
Top cabinet
Tray Loading P.C.B
Main P.C.B.
FL P.C.B.
Front panel
Volume P.C.B.

12.3. Disassembling the Top Cabinet

Step 1 Unscrew the screw.


Screw
Screw

Step 2 Lift up and remove the top cabinet.

12.4. Disassembling the Lid assembly (When taking out disc manually)

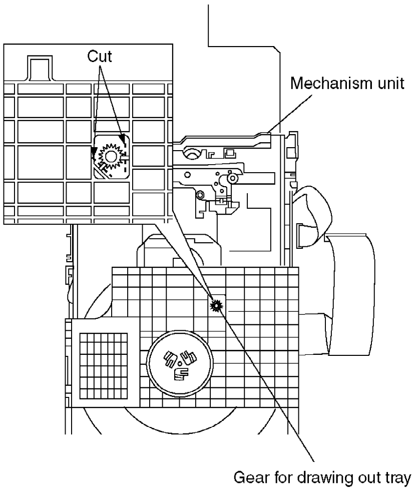
- Follow the (Step 1) - (Step 2) of Item 12.3.

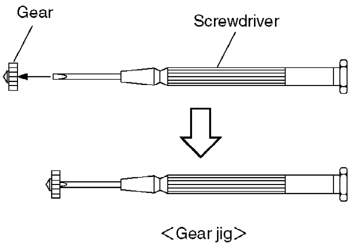
Step 1 Separates the gear for drawing out tray from the mechanism unit. It inserts a screw driver in the gear. (The gear jig)

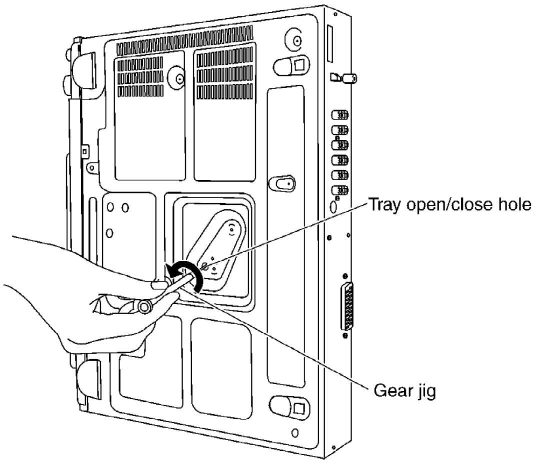
Step 2 Insert the gear jig into the tray open/ close hole.

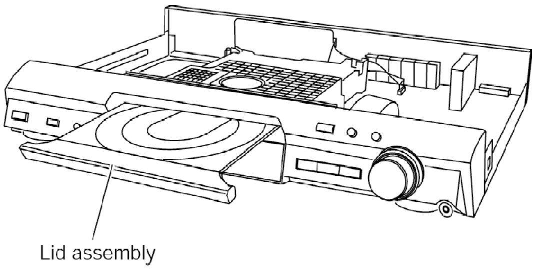
Step 3 Turn the gear jig counterclockwise to open the tray.

Note : Do not use force to push the tray backwards as it can damage the mechanism unit. / Turn the gear jig clockwise to return tray.


Cut
Mechanism unit
Gear for drawing out tray


Gear
Screwdriver
<Gear jig>


Tray open/close hole
Gear jig


Lid assembly

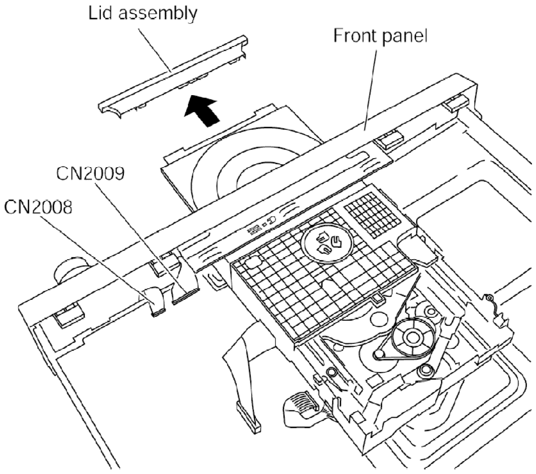
12.5. Disassembling the Front Panel

- Follow the (Step 1) - (Step 2) of Item 12.3.

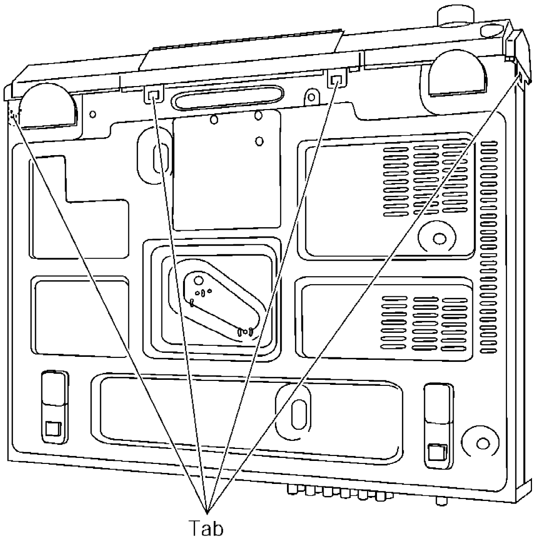
- Follow the (Step 1) - (Step 3) of Item 12.4.

Step 1 Remove the lid assembly from the tray section.

Step 2 Detach FFC cables at connectors. (CN2008, CN2009)


Lid assembly
Front panel
CN2009
CN2008

Step 3 Release the tabs.



Step 4 Lift up the front panel to remove it.

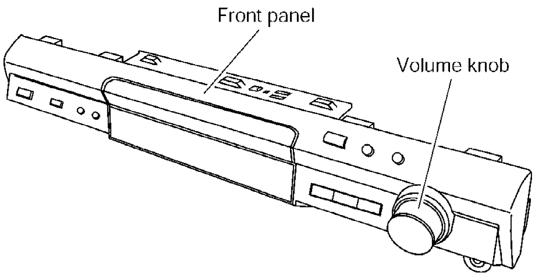
12.6. Disassembling the FL P.C.B. and Volume P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 3) of Item 12.4.

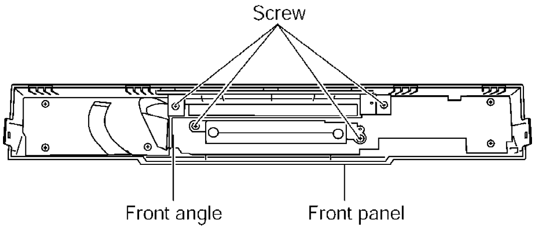
- Follow the (Step 1) - (Step 4) of Item 12.5.

Step 1 Remove the volume knob.

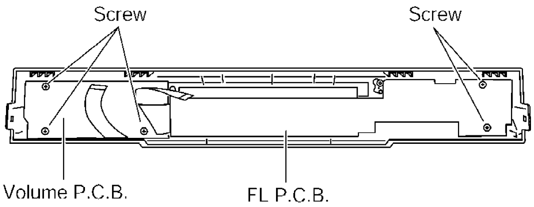

Front panel
Volume knob

Step 2 Unscrew the screws.

Step 3 Remove the front angle.


Screw
Front angle
Front panel

Step 4 Unscrew the screws.


Screw
Screw
Volume P.C.B.
FL P.C.B.

12.7. Disassembling the DVD mechanism Unit

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 3) of Item 12.4.

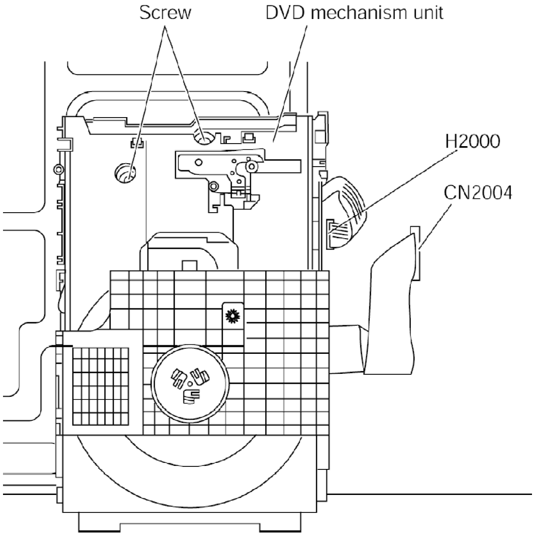
- Follow the (Step 1) - (Step 4) of Item 12.5.

Step 1 Turn the gear jig clockwise to close the tray.

Step 2 Unscrew the screws.

Step 3 Detach FFC cable at connectors. (CN2004, H2000).

Step 4 Lift up the mechanism unit vertically.


Screw
DVD mechanism unit
H2000
CN2004

12.8. Disassembling the DVD Module P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

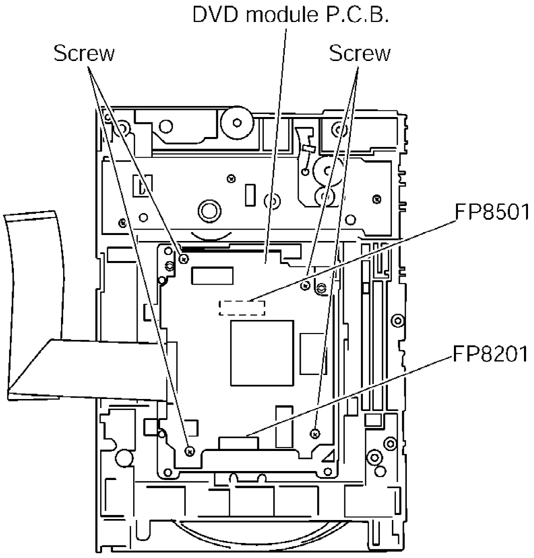
- Follow the (Step 1) - (Step 3) of Item 12.4.

- Follow the (Step 1) - (Step 4) of Item 12.5.

- Follow the (Step 1) - (Step 4) of Item 12.7.

Step 1 Unscrew the screws.

Step 2 Detach FFC cable at the connectors.(FP8201, FP8501)


DVD module P.C.B.
Screw
Screw
FP8501
FP8201

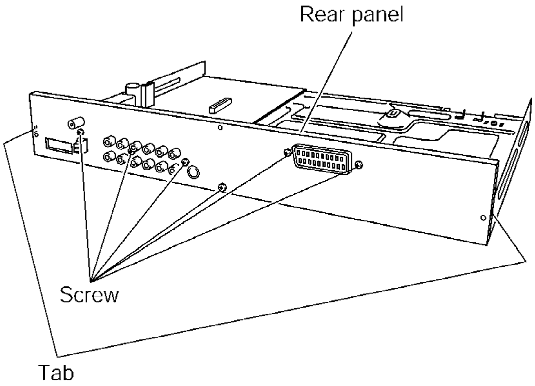
<Mechanism unit bottom>

12.9. Disassembling the Rear panel

- Follow the (Step 1) - (Step 2) of Item 12.3.

Step 1 Unscrew the screws.

Step 2 Release the tabs.

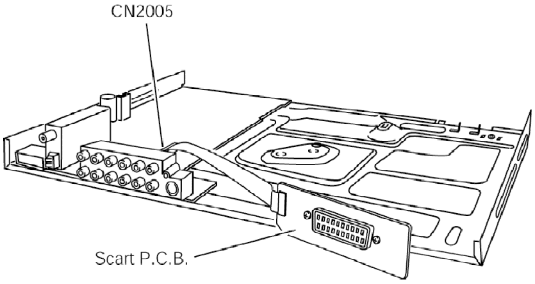

Rear panel
Screw
Tab

12.10. Disassembling the Scart P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 2) of Item 12.9.

Step 1 Detach FFC cable at connector. (CN2005)


CN2005
Scart P.C.B.

12.11. Disassembling Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 3) of Item 12.4.

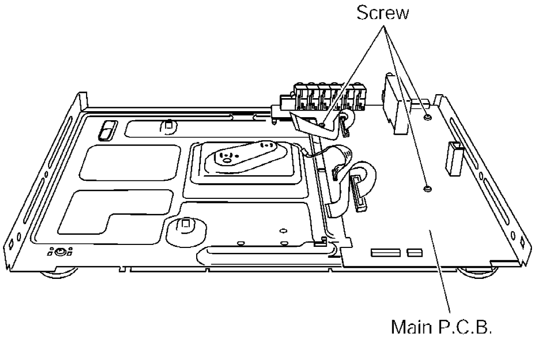
- Follow the (Step 1) - (Step 4) of Item 12.5.

- Follow the (Step 1) - (Step 4) of Item 12.7.

- Follow the (Step 1) - (Step 2) of Item 12.9.

- Follow the (Step 1) of Item 12.10.

Step 1 Unscrew the screws.



12.12. Service Position

12.12.1. Servicing position of the DVD Module P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 3) of Item 12.4.

- Follow the (Step 1) - (Step 4) of Item 12.5.

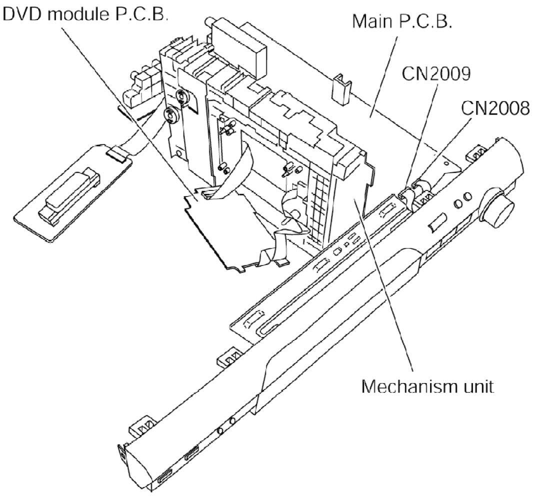
- Follow the (Step 1) - (Step 4) of Item 12.7.

- Follow the (Step 1) of Item 12.8.

- Follow the (Step 1) - (Step 2) of Item 12.9.

Step 1 Connect FFC cabel at connector. (CN2008, CN2009)

Step 2 Turn Mechanism unit to vertically position.



12.12.2. Servicing position of the Main P.C.B.

- Follow the (Step 1) - (Step 2) of Item 12.3.

- Follow the (Step 1) - (Step 3) of Item 12.4.

- Follow the (Step 1) - (Step 4) of Item 12.5.

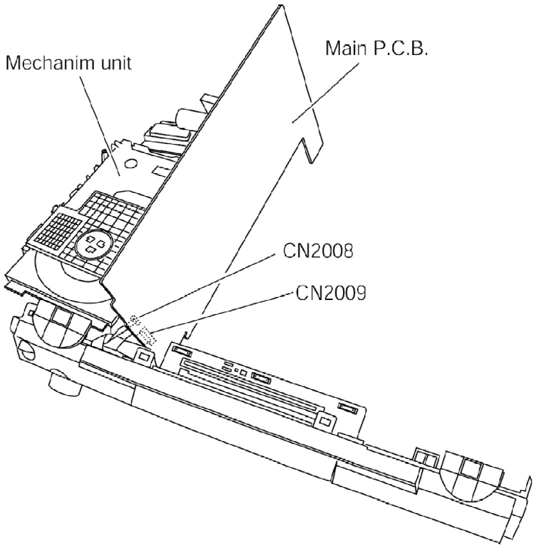
- Follow the (Step 1) - (Step 4) of Item 12.7.

- Follow the (Step 1) of Item 12.8.

- Follow the (Step 1) - (Step 2) of Item 12.9.

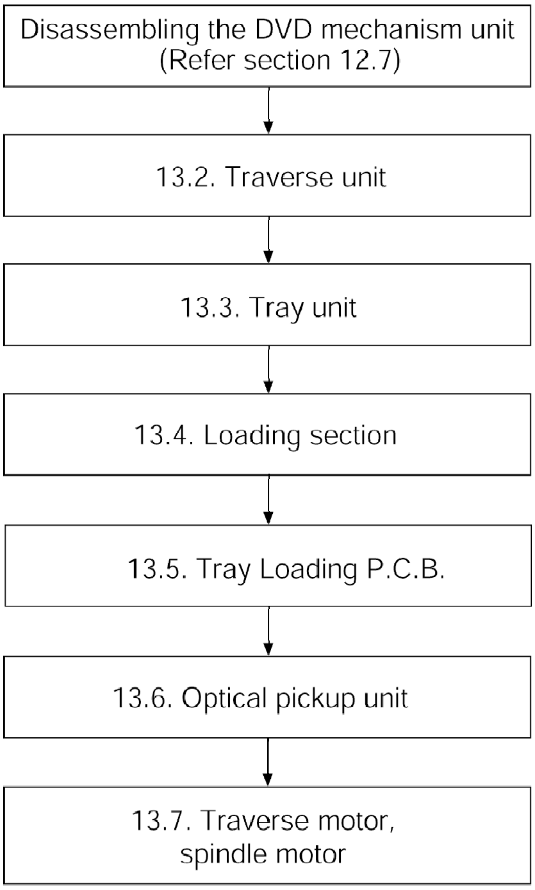
Step 1 Connect FFC cabel at connector. (CN2008, CN2009)

Step 2 Turn Main P.C.B to vertically position.



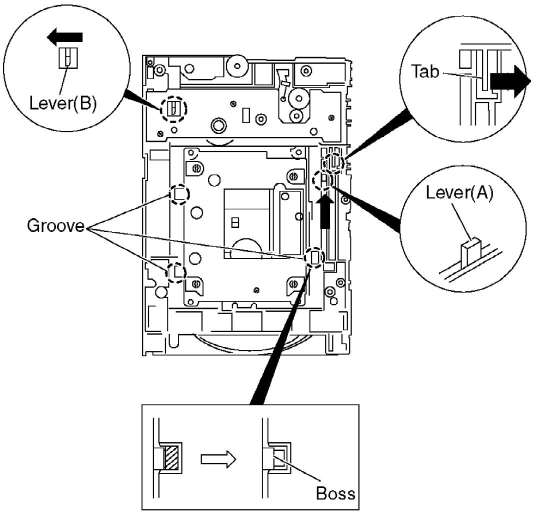
13. Assembling and disassembling the Mechanism Unit

13.1. Disassembly Procedure

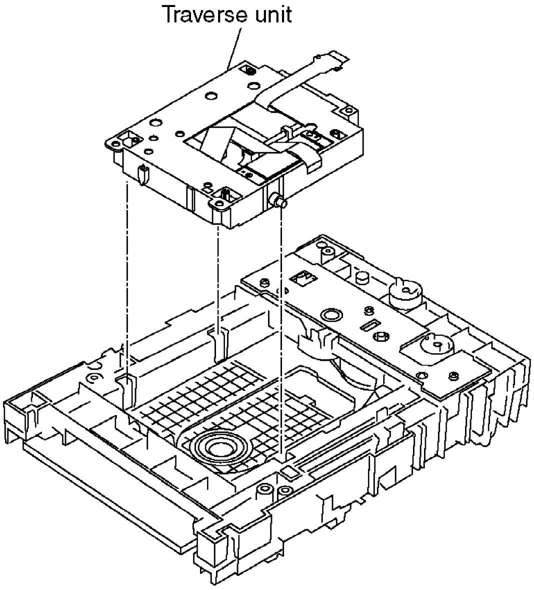

Disassembling the DVD mechanism unit
(Refer section 12.7)
13.2. Traverse unit
13.3. Tray unit
13.4. Loading section
13.5. Tray Loading P.C.B.
13.6. Optical pickup unit
13.7. Traverse motor,
spindle motor

13.2. Traverse Unit

1. **Slide the lever (A) in the arrow direction (to the opposite side) till it stops.**
2. **Slide the lever (A) further by bending the tab at the right side of the lever A in the right direction. (The right groove opens and the boss becomes seen.)**
3. **Open the lever (B) to left. (The 2 grooves at the left side open.)**

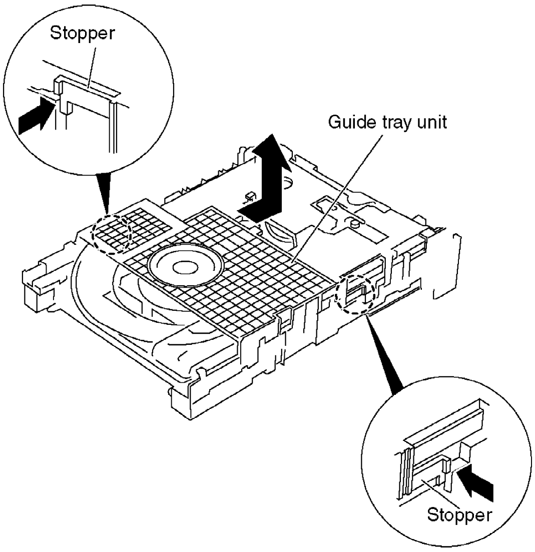

Lever(B)
Tab
Lever(A)
Groove
Boss

4. Remove the traverse unit

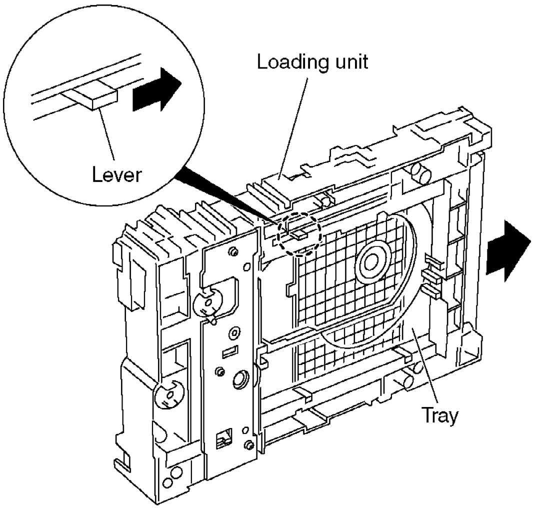

Traverse unit

13.3. Tray

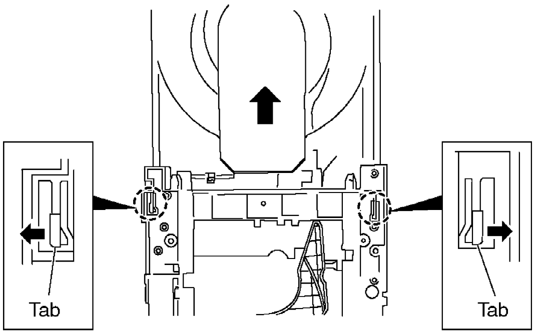
1. Slide the guide tray unit while pressing the stopper in the arrow direction, and remove the guide tray unit.


Stopper
Guide tray unit
Stopper

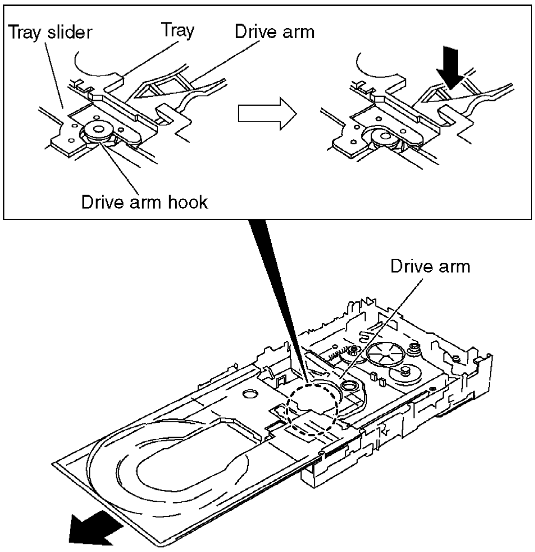
2. **Raise the loading unit.**
3. **Slide the lever in the arrow direction till it stops and pull the tray out.**


Loading unit
Lever
Tray

4. **Spread the tabs at the both sides and pull the tray out. (The tray slides a little forward and stops.)**

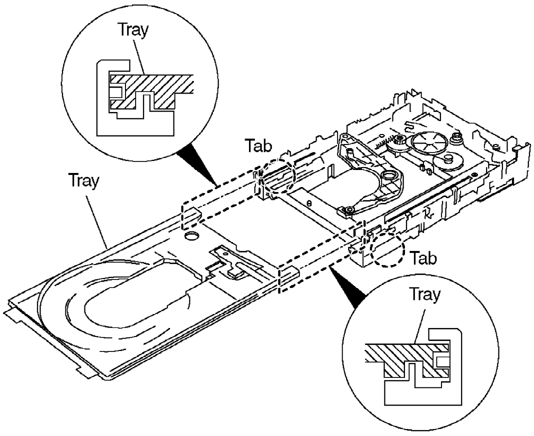


5. **Remove the drive arm concave phase from the tray slider and tray.**

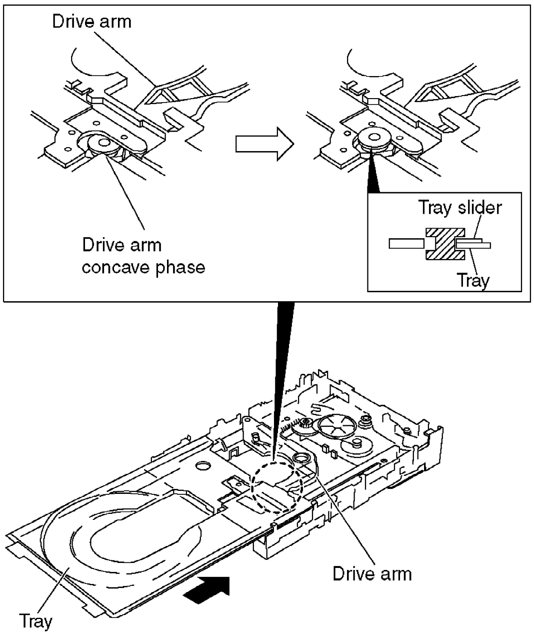

Tray slider
Tray
Drive arm
Drive arm hook
Drive arm

<Assembling the tray unit>

1. **Insert a part of the tray into the unit sliding over the groove on the mechanical chassis unit.**
2. **Insert the tray to the point before the tab of the mechanical chassis unit.**

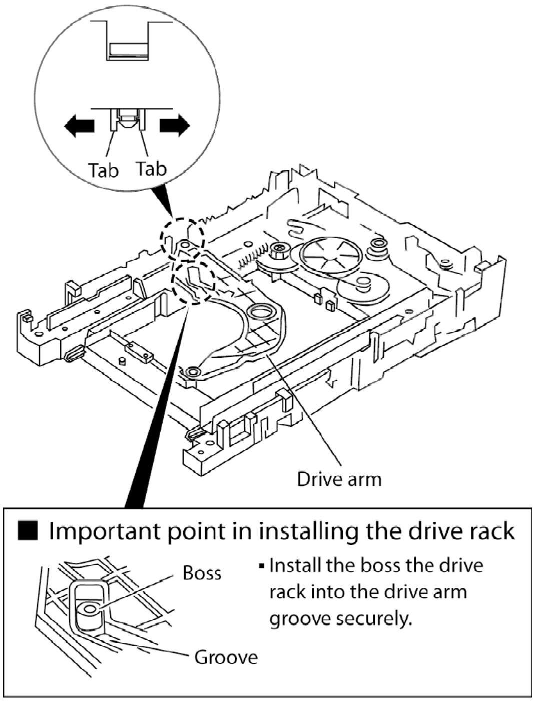

Tray
Tab
Tray
Tab
Tray

3. **Hook the drive arm concave phase over the tray and the tray slider.**
4. **Press in the tray.**
5. **Make sure that the tray and the drive arm move smoothly.**


Drive arm
Drive arm concave phase
Tray slider
Tray
Drive arm
Tray

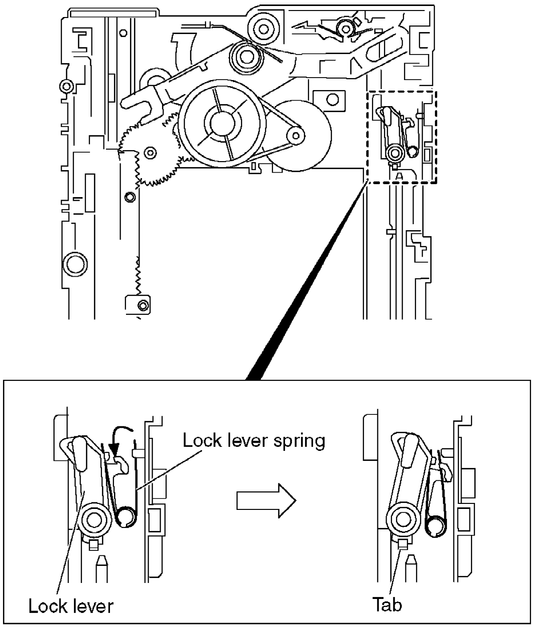
13.4. Loading section

1. Spread the tabs at the both sides and push out the drive arm shaft.

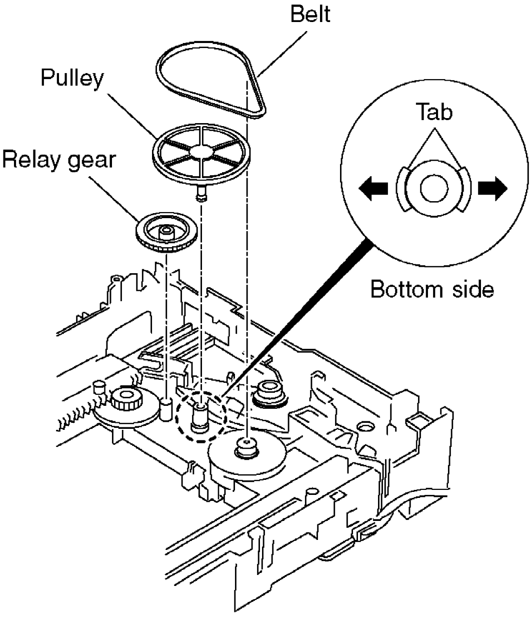

Tab
Tab
Drive arm
■ Important point in installing the drive rack
Boss
▪ Install the boss the drive rack into the drive arm groove securely.
Groove

2. Hook the lock lever spring on the lock lever projection part temporarily.

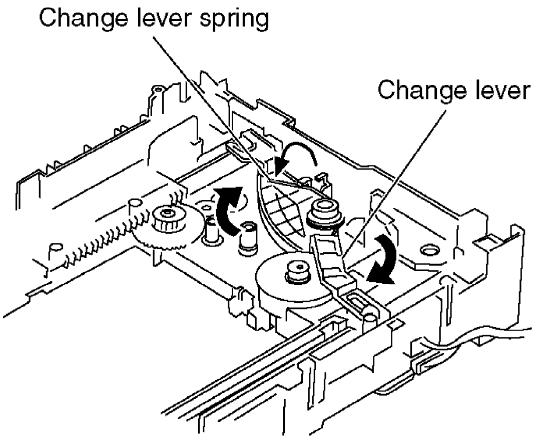
3. Unlock the tab and remove the lock lever.


Lock lever spring
Lock lever
Tab

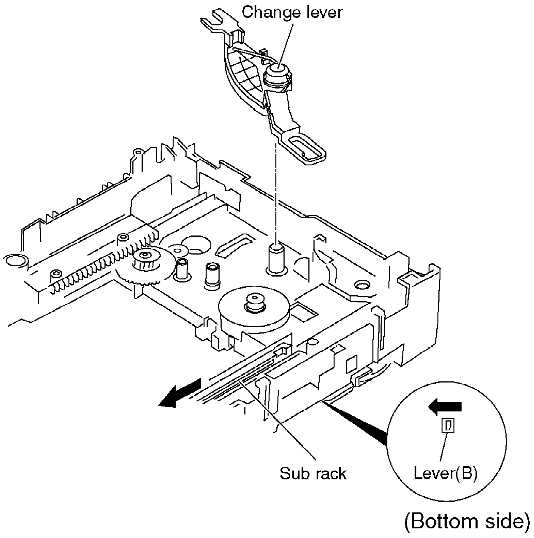
4. **Remove the belt.**
5. **Unlock the tab and remove the pulley.**
6. **Remove the relay gear.**


Belt
Pulley
Relay gear
Tab
Bottom side

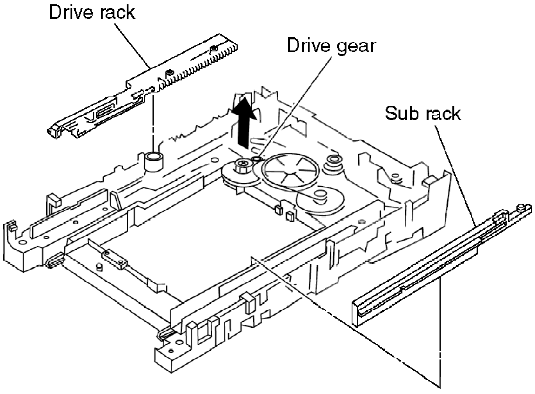
7. **Turn the change lever in the arrow direction till it stops.**
8. **Hook the change lever spring on the change lever project part temporarily.**


Change lever spring
Change lever

9. **Pull the lever (B) in the bottom side to your side and remove the change lever.**

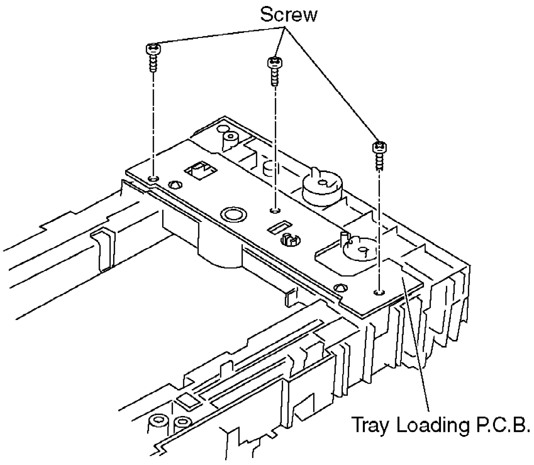

Change lever
Sub rack
Lever(B)
(Bottom side)

10. **Remove the drive rack, the sub rack and the drive gear.**


Drive rack
Drive gear
Sub rack

13.5. Tray Loading P.C.B.

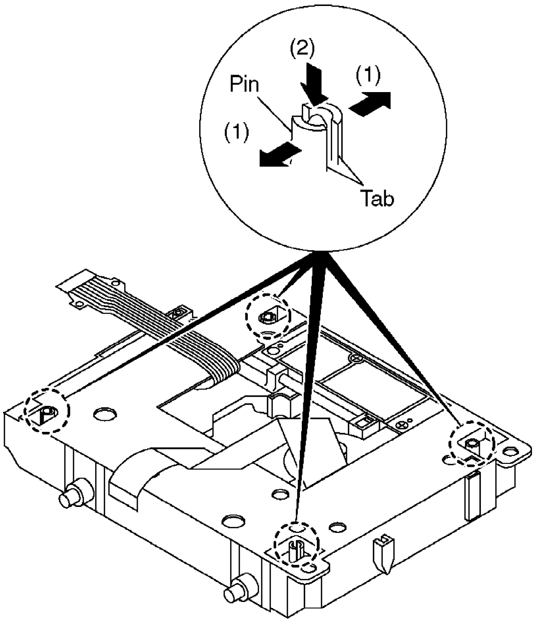
1. **Unscrew the screws**


Screw
Tray Loading P.C.B.

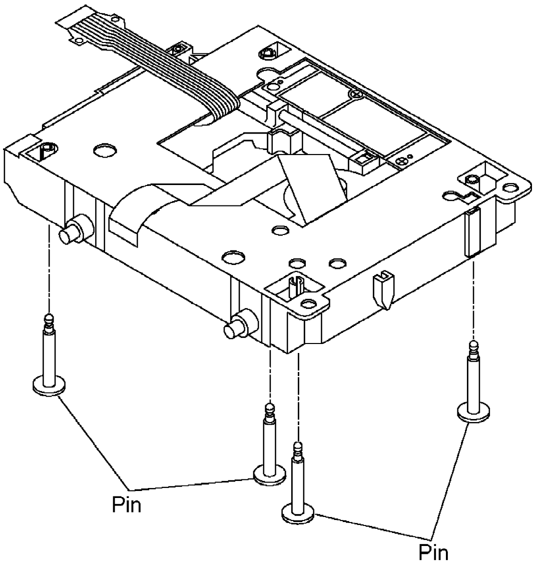
13.6. Optical Pickup Unit

13.6.1. Procedure for Disassembling the Optical Pickup Unit

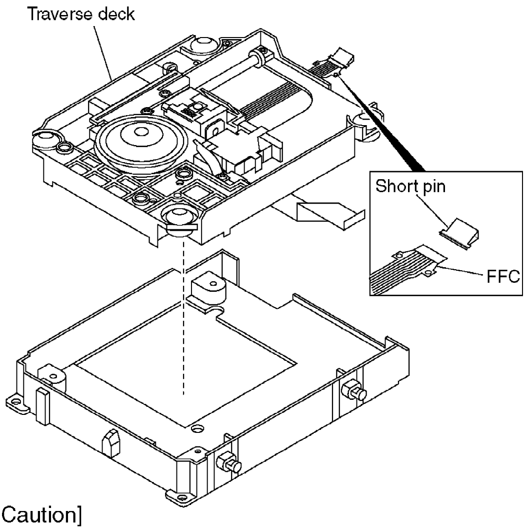
1. Spread the tabs to push in the pin.



2. Remove the pins.



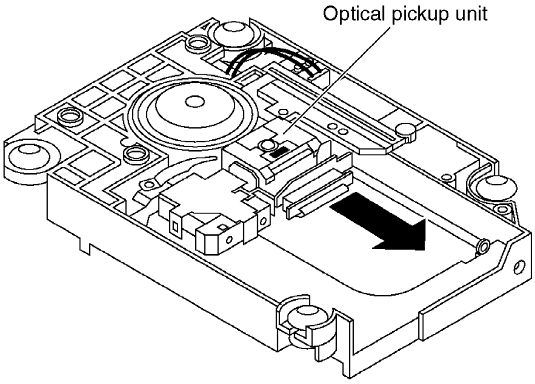
3. Remove the traverse deck.


Traverse deck
Short pin
FFC

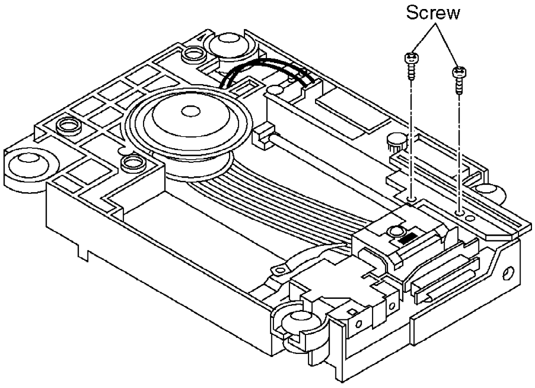
[Caution]

Insert the short pin into the FFC of the optical pickup unit. [See "Caution to be taken in handling the optical pickup unit"]

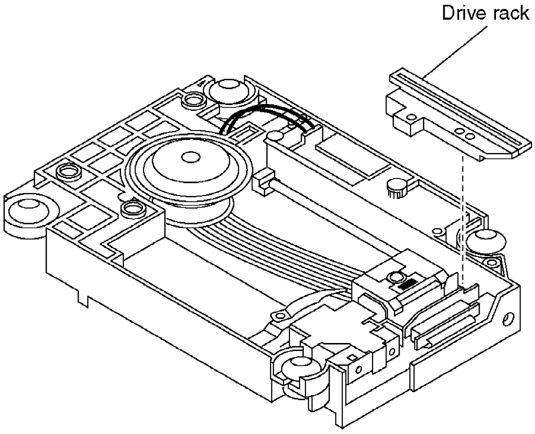
4. Move the optical pickup unit in the arrow direction till it stops.


Optical pickup unit

5. Unscrew the screws.

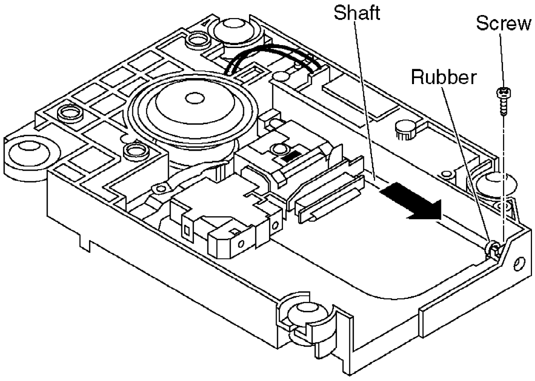


6. Remove the drive rack.

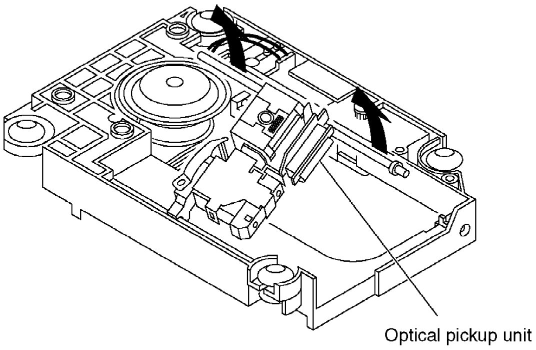


7. Unscrew the screw

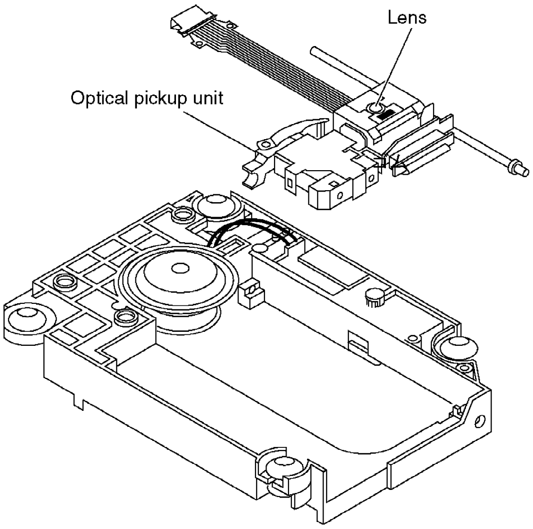
8. Slide the shaft in the arrow direction.


Shaft
Screw
Rubber

9. Lift the optical pickup unit with the shaft.


Optical pickup unit

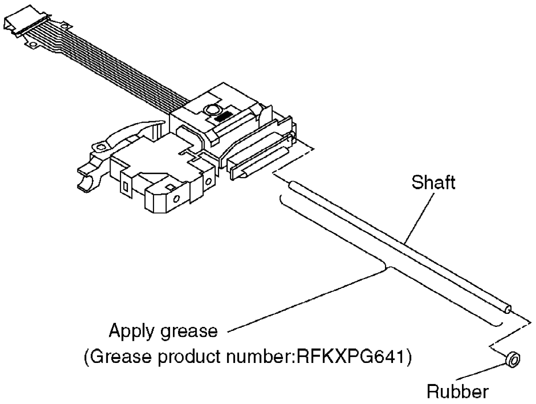
10. Remove the optical pickup unit.


Lens
Optical pickup unit

[Caution]

1. Do not give a considerable shock to the optical pickup unit as it has an extremely high-precise structure.
2. Do not touch the lens in the optical pickup unit.

11. Pull the shaft and the rubber out.

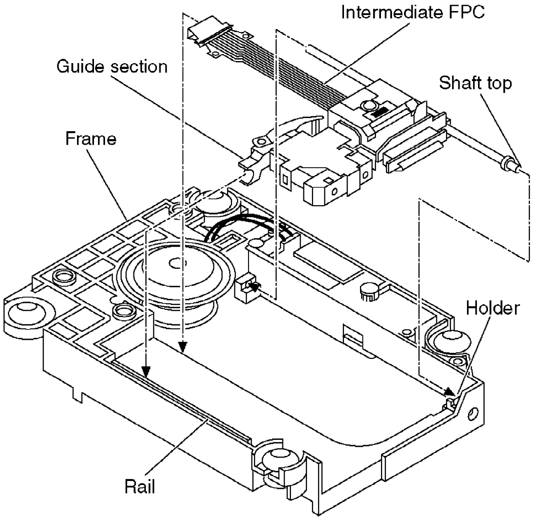

Shaft
Apply grease
(Grease product number:RFKXPG641)
Rubber

<Assembling the optical pickup unit>

1. Pass the intermediate FPC through the frame hole.

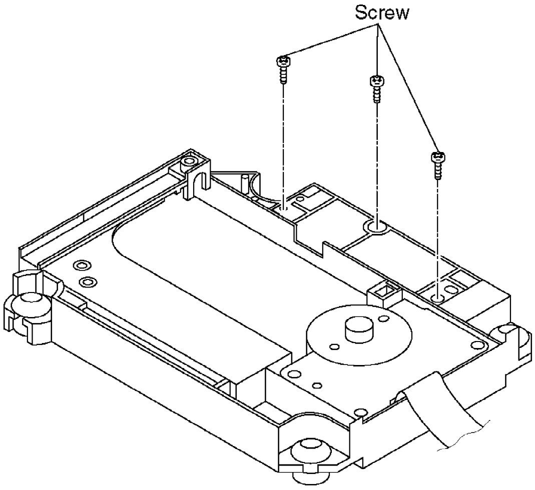
2. Align the guide section of the optical pickup unit with the rail.

3. Install the shaft top to the holder.

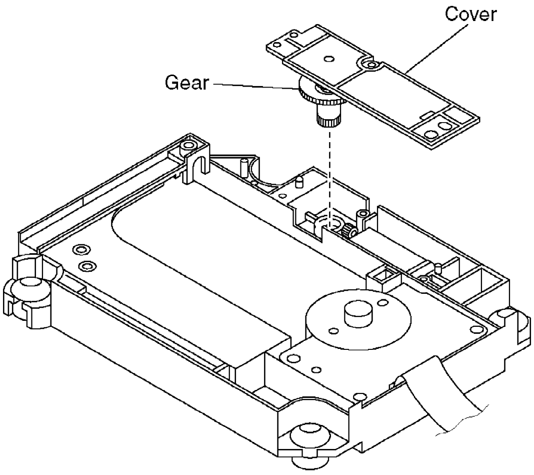

Intermediate FPC
Guide section
Shaft top
Frame
Holder
Rail

13.7. Traverse Motor and Spindle Motor

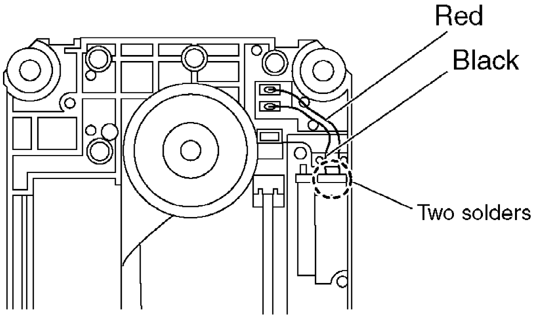
1. Unscrew the screws.



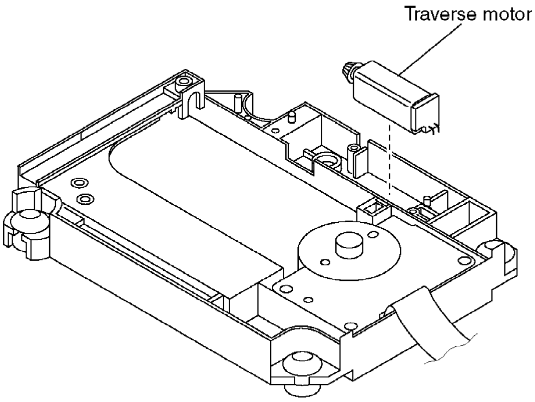
2. Remove the cover while lifting the inner gear.



3. Remove the solders.

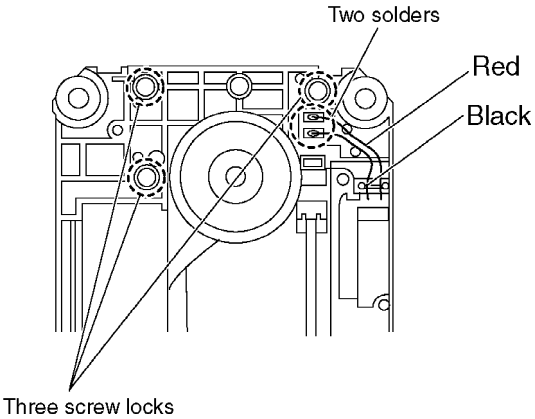

Red
Black
Two solders

4. Remove the traverse motor.


Traverse motor

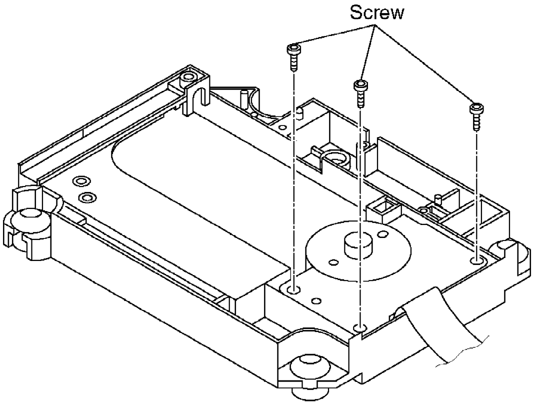
5. Remove the solders.

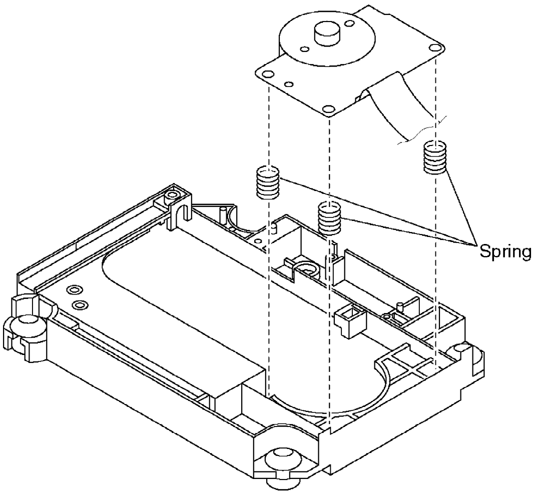
6. Remove the screw lock as carefully as you can.


Two solders
Red
Black
Three screw locks

7. Unscrew the screws with torx screw driver (T6).

8. Remove the spindle motor.





[Caution]
The three springs are removed at the same time when the spindle motor is removed. Use caution not to lose them.

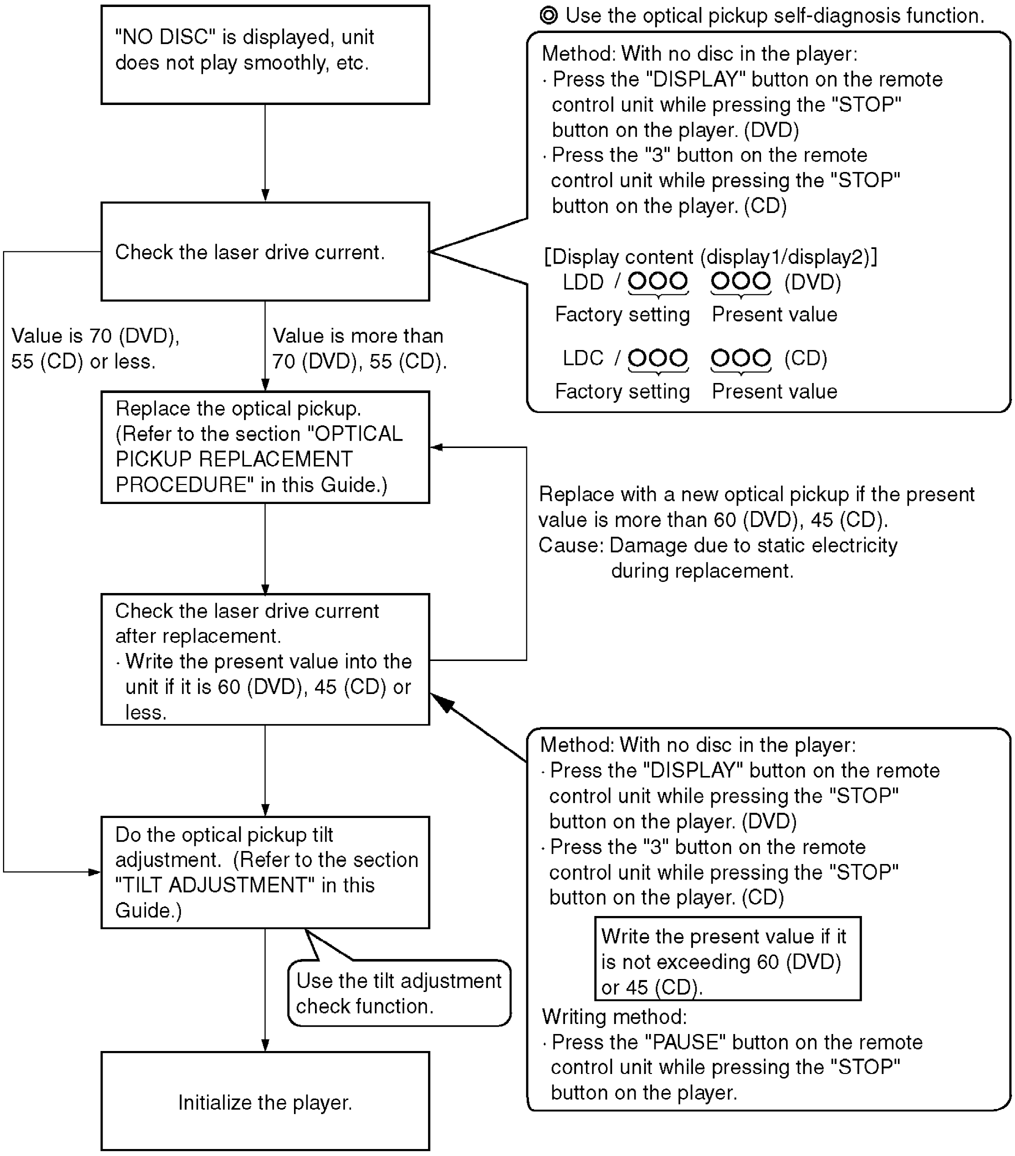
14. Optical Pick-up Self-Diagnosis and Replacement Procedure

14.1. Optical Pickup Breakdown Diagnosis

The optical pickup self-diagnosis function and tilt adjustment check function have been included in this unit. When repairing, use the following procedure for effective Self-diagnosis and tilt adjustment. Be sure to use the self-diagnosis function before replacing the optical pickup when "NO DISC" is displayed. As a guideline, you should replace the optical pickup when the value of the laser drive current is more than 55.

Note:

Press the power button to turn on the power, and check the value within three minutes before the unit warms up. (Otherwise, the result will be incorrect.)



"NO DISC" is displayed, unit does not play smoothly, etc.

Check the laser drive current.

Value is 70 (DVD), 55 (CD) or less.

Value is more than 70 (DVD), 55 (CD).

Replace the optical pickup. (Refer to the section "OPTICAL PICKUP REPLACEMENT PROCEDURE" in this Guide.)

Check the laser drive current after replacement.
· Write the present value into the unit if it is 60 (DVD), 45 (CD) or less.

Do the optical pickup tilt adjustment. (Refer to the section "TILT ADJUSTMENT" in this Guide.)

Use the tilt adjustment check function.

Initialize the player.

◎ Use the optical pickup self-diagnosis function.

Method: With no disc in the player:
· Press the "DISPLAY" button on the remote control unit while pressing the "STOP" button on the player. (DVD)
· Press the "3" button on the remote control unit while pressing the "STOP" button on the player. (CD)

[Display content (display1/display2)]

LDD / OOO OOO (DVD)
Factory setting Present value

LDC / OOO OOO (CD)
Factory setting Present value

Replace with a new optical pickup if the present value is more than 60 (DVD), 45 (CD).
Cause: Damage due to static electricity during replacement.

Method: With no disc in the player:
· Press the "DISPLAY" button on the remote control unit while pressing the "STOP" button on the player. (DVD)
· Press the "3" button on the remote control unit while pressing the "STOP" button on the player. (CD)

Write the present value if it is not exceeding 60 (DVD) or 45 (CD).

Writing method:
· Press the "PAUSE" button on the remote control unit while pressing the "STOP" button on the player.

14.2. Service Mode Table 1

The service modes can be activated by pressing various button combination on the player and remote control unit.

Player buttons	Remote control unit buttons	Application	N
STOP	0	Error code display	(Refer t “14.3. D Diagnos Functio Code”).
	5	Tilt adjustment	Refer to “17.4. O adjustm
	6	Area number and broadcasting system check	
	7	Built-in program version check	
	DISPLAY	DVD laser drive current check	Refer to “14.1. O Pickup Breakdo Diagnos
	3	CD laser drive current check	
	PAUSE	Writing of laser drive current value after replacement of optical pickup (Do use this function only when optical pickup is replaced.)	
	≧10	Initialization of the player (factory setting is restored.) Used after replacement of micro-computer and its peripherals and printed circuit board.	

14.3. DVD Self Diagnostic Function-Error Code

Error Code	Error Content	Additional error explanation
	U, H error	
U11	Focus error	
H01	Tray loading error	
H02	Spindle servo error	(Spindle servo, DSC (IC8271) SP motor, CLV servo error)
H03	Traverse servo error	(Traverse motor, IC8251)
H04	Tracking servo error	
H05	Seek error	
H06	Power error	Cannot switch off the power because of the panel and sys computer communication error
H07	Spindle motor drive error	Spindle motor
	DSC related	
F500	DSC error	DSC (IC8271) stops in the occurrence of servo error (start error, etc.)
F501	DSC not Ready error	DSC-system computer communication error (Communicat caused by idling of DSC)
F502	DSC Time out error	Similar disposal as F500
F503	DSC communication Failure	Communication error (result error occurred although communication command was sent)

Error Code	Error Content	Additional error explanation
F504	Error adjusting DSC data slice offset	
F505	DSC Attention error	Similar disposal as F500
F506	Invalid media	Disc is flipped over, TOC unreadable, incompatible disc m
	ODC related	
F600	Access failure to management information caused by demodulation error	Operation stopped because navigation data is not accessi caused by the demodulation defect
F601	Indeterminate sector ID requested	Operation stopped caused by the request to access abnor data
F602	Access failure to LEAD-IN caused by demodulation error	LEAD IN data unreadable
F603	Access failure to KEYDET caused by demodulation error	Access failure to CSS data of disc
F610	ODC abnormality	No permission for command execution
F611	6626 QCODE don't read Error	Access failure to seek address in CD series
F612	No CRC OK for a specific time	Access failure to ID data in DVD series
F620	Laser safeguard: high temperature condition	
F621	Laser safeguard: circuit failure condition	
F630	No reply to KEY DET enquiry	(for internal use only)
F631	CPPM KEY DET is not available till the FILE terminal	(CPPM file system is unreadable caused by scratches)
F632	CPPM KEY DET is not available	Been revoked or falsified
	Disc code	
F103	Illegal highlight Position	Big possibility of disc specification violation during highli
	HIC Error	
F4FF	Force initialize failure (time out)	
	Micro computer error	
F700	MBX overflow	When replying message to disc manager
F701	Message command does not end	Next message is sent before replying to disc manager
F702	Message command changes	Message is changed before it is sent as a reply to disc ma

Error Code	Error Content	Additional error explanation
F880	Task number is not appropriate	Message coming from a non-existing task
F890	Sending message when message is being sent to AV task	Sending message to AV task
F891	Message couldn't be sent to AV task	Begin sending message to AV task
F893	FROM falsification	
F894	EEPROM abnormality	
F895	Language area abnormality	Firm version agreement check for factory preset setting fa prevention
F896	No existence model	Firm version agreement check for factory preset setting fa prevention
F897	Initialize is not completed	Initialize completion check for factory preset setting failur prevention
F898	Disagreement of hardware and software	Unsuitable combination of AV DECORDER, SDRAM and F (firmware)
F8A0	Message command is not appropriate	Begin sending message to AV task

Note:

An error code will be canceled if a power supply is turned OFF.

***1: CPPM is the copy guard function beforehand written in the disk for protection of copyrights.**

14.4. Service mode table 2

Pressing various button combinations on the player and remote control unit can activate the service modes.

Item	Player mode and button combination	Function	Display	Cancellation method
Jitter check	In STOP (no disc) mode, press STOP button on the player, and "5" button on the remote control unit.	Jitter check Jitter rate is measured and displayed. Measurement is repeatedly done in the cycle of one second. Read error counter starts from zero upon mode setting. When target block data failed to be read out, the counter advances by one increment. When the failure is caused by minor error, it may be corrected when retried to enable successful reading. In this case, the counter advances by one. When the error persists even after retry, the counter may jump by two or more.	J _xxx/yyy_zz (display1/display2) Focus drive value Read error counter Jitter rate Jitter check mode Jitter rate is shown in decimal notation to one place of decimal. Focus drive value is shown in hexadecimal notation.	Press STOP or OPEN button.
Error code check	In STOP (no disc) mode, press STOP button on the player, and "0" button on the remote control unit. * With pointing of cursor up and down on display	Error code check The latest error code stored in EEPROM is displayed.	Error code (play_err) is expressed in the following convention. Error code = 0 x DAXX is expressed: → DVDnn UXX Error code = 0 x DBXX is expressed: → DVDnn HXX Error code = 0 x DXXX is expressed: → DVDnn FXXX Error code = 0 x 0000 is expressed: → DVDnn F--- * "xx" denotes the error code.	Cancelled automatically 5 seconds later.
Initial setting of laser drive current	In STOP (no disc) mode, press STOP button on the player, and PAUSE button on the remote control unit.	Initial setting of laser drive currentInitial current value for each of DVD laser and CD laser is separately saved in EEPROM.	LDO_/034_028 (display1/display2) CD laser current measurement DVD laser current measurement Laser current measurement mode The value denotes the current in decimal notation. The above example shows the initial current is 34mA and 28mA for DVD laser and CD laser respectively when the laser is switched on.	Cancelled automatically 5 seconds later.
DVD laser drive current measurement	In STOP (no disc) mode, press STOP button on the player, and DISPLAY button on the remote control unit.	DVD laser drive current measurement ·DVD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, DVD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	LDD_/034_032 (display1/display2) Measured current Initial current stored in EEPROM DVD laser current measurement mode The value denotes the current in decimal notation. The above example shows the initial current is 34mA and the measured value is 32mA.	Cancelled automatically 5 seconds later.
ADSC internal RAM data check	In STOP (no disc) mode, press STOP button on the player, and "1" button on the remote control unit.	ADSC internal RAM data check ·ADSC internal RAM data is read out and displayed.	OFA_6901 RAM data for specified address Address The value is shown in hexadecimal notation. The above example shows the data in ADSC address OFAh is 6901h.	Press STOP or PLAY button.
CD laser drive current measurement	In STOP (no disc) mode, press STOP button on the player, and "3" button on the remote control unit.	CD laser drive current measurement CD laser drive current is measured and the result is displayed together with the initial value stored in EEPROM. After the measurement, CD laser emission is kept on. It is turned off when POWER key is switched off. (It is also turned off when POWER button on the player is switched off.)	LDC_/028_026 (display1/display2) Measured current Initial current stored in EEPROM CD laser current measurement mode The value denotes the current in decimal notation. The above example shows the initial current is 28mA and the measured value is 26mA.	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Version display	In STOP (no disc) mode, press STOP button on the player, and "7" button on the remote control unit.	Version display	srrr/xxyzzz (display1/display2) System controller release number System controller model number System controller generation Panel controller release number Panel controller model number	Cancelled automatically 5 seconds later.
Initialization	In STOP (no disc) mode, press STOP button on the player , and ≧10 button on the remote control unit.	Initialization User settings are cancelled and player is initialized to factory setting.	--INIT--	———
Region display	In STOP (no disc) mode, press STOP button on the player, and "6" button on the remote control unit.	Region display	w__xy__zzz Panel controller jumper information N: NTSC / 6: PAL60 N: noPAL / P: PAL Region No.	Cancelled automatically 5 seconds later.
Region and syscon version display	In STOP (no disc) mode, press STOP button on the player, and "8" button on the remote control unit.	Region and syscon display	w_xxyzzz System controller version Destination System controller generation Region	Cancelled automatically 5 seconds later.
Communication error display	In STOP (no disc) mode, press STOP button on the player, and "MENU" button on the remote control unit.	Displays frequency of communication errors between system control IC and mechanism control IC during DVD module.	ER_02_30	Cancelled automatically 5 seconds later.

Item	Player mode and button combination	Function	Display	Cancellation method
Timer 1 check	In STOP (no disc) mode, press STOP button on the player, and "▲" button on the remote control unit.	Timer 1 check Laser operation timer Operation time is measured separately for DVD laser and CD laser.	T1_1234/5678 (display1/display2) Shown to the left is DVD laser time, and to the right CD laser time. Time is shown in 4 digits of decimal notation in a unit of 10 hours. "0000" will follow "9999".	Cancelled automatically 5 seconds later.
Timer 1 reset	While displaying Timer 1 data, press STOP button on the "▼" button on the remote control unit.	Timer 1 reset Laser operation timer Operation time of both DVD laser and CD laser is reset all at once.	T1_0000/0000 (display1/display2)	Cancelled automatically 5 seconds later.
Timer 2 check	In STOP (no disc) mode, press STOP button on the player, and " ▶ " button on the remote control unit.	Timer 2 check Spindle motor operation timer	T2_12345 Time is shown in 5 digits of decimal notation in a unit of 10 hours. "00000" will follow "99999".	Cancelled automatically 5 seconds later.
Timer 2 reset	While displaying Timer 2 data, press STOP button on the player and " ◀ " button on the remote control unit.	Timer 2 reset Spindle motor operation timer	T2_00000	Cancelled automatically 5 seconds later.

14.5. Sales demonstration lock function

This function prevents discs from being lost when the unit is used for sales demonstrations by disabling the disc eject function. "LOCKED" is displayed on the unit, and ordinary operation is disabled.

14.5.1. Setting

- Prohibiting removal of disc

1. **Select the DVD/CD function.**
2. **Press and hold down the ■ button on the player and the power button on the remote controller unit for at least three seconds. (The message, “___LOCKED_” appears when the function is activated.)**

Note:

OPEN/CLOSE ⏏ button is invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD function.**
2. **Press and hold down the ▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)**

Note:
The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

Player	**⏏, ■, ❚❚, SELECTOR, ▶▶|, |◀◀, VOLUME KNOB,**
Remote controller unit	**SLEEP, REPEAT, 0~9, ≧10, RETURN, TOP MENU, ■, ❚❚, |◀◀, ▶▶|, ◀◀, ▶▶, POSITION MEMORY, TUNER/BAND, D.MIX, CH SELECT/ TEST, SET UP/ MUTING, DISPLAY, GROUP, TV, VCR/ AUX, QUICK REPLAY, SUBTITLE, FL DISPLAY, CH & VOLUME**

14.5.2. Cancellation

The lock can be cancelled by the same procedure as used in setting. ("UNLOCK" is displayed on cancellation. Disconnecting the power cable from power outlet does not cancel the lock.)

14.6. Handling After Completing Repairs

Use the following procedure after completing repairs.

14.6.1. Method

Confirm that the power is turned on:

1. **Press the "OPEN/CLOSE" button to close the tray.**
2. **Press the "POWER" button to turn off the power.**
3. **Disconnect the power plug from the outlet.**

14.6.2. Precautions

Do not disconnect the power plug from the outlet with the tray still open, then close the tray manually.

15. Self-Diagnosis Function

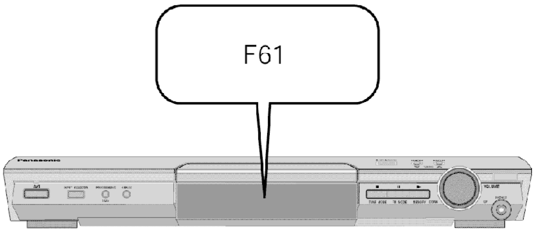
15.1. Automatic Displayed Error / Codes

15.1.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.



15.1.2. Re-Display

- For F61 Display
- When the code, F61 is displayed, the power is automatically turned off.
- The code, F61 is displayed for three seconds, and then the current time appears.
- To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.

15.1.3. Description of Error Code

15.1.3.1. F61

- State, Condition

  When the power is turned on, the unit is automatically turned off. The power does not turn on.
- Cause, Troubleshooting

  Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

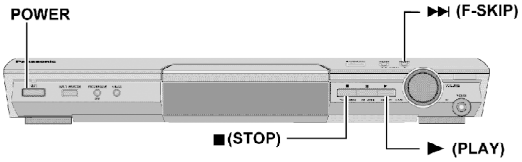
15.2. Memorized Error Codes

15.2.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button simultaneously for at least

two seconds, and press the F_SKIP ▶▶| button for at least two seconds in order to display “T__________”.

3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15)(See table below) / If several errors are detected, press the ■ button to display each.



15.2.2. Re-Display

- Press the power button to turn off the power, and then turn on the power.
- The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, “Activating Self-Diagnosis Function and Displaying Method”.

15.2.3. Deleting Details of Self Diagnosis

- After repair, press and hold down the ■ button for at least five seconds, “_ CLEAR __” appears for a second and then “T________” appears. (Deleting the details of self diagnosis)
- After repairing errors, be sure to delete the details of self diagnosis.

Error Code	State, Condition	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S S902) failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

16. Service Precautions

16.1. Recovery after the DVD player is repaired

- When FLASH ROM IC or DVD module P.C.B. is replaced, carry out the recovery processing to optimize the drive.
  Playback the recovery disk to process the recovery automatically.
- Recovery disc (Product number: RFKZD03R005)
- Performing recovery

1. **Load the recovery disc RFKZD03R005 on to the player and run it.**
2. **Recovery is performed automatically. When it is finished, a message appears on the screen.**
3. **Remove the recovery disc.**
4. **Turn off the power.**

Note:
This unit requires no initialization process carried out after the traditional DVD players were repaired.
When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item of "Initialization" in 14.4. is carried out. Write down the contents of the setting before recovery processing, and reset the player.

16.2. Firmware version-up of the DVD player

- **The firmware of the DVD player may be renewed to improve the quality including operability and playability to the substandard discs.processing to optimize the drive.**
  The recovery disc has also firmware version-up.
- **After version-up, recovery processing is executed automatically.**
- **Part number of the recovery disc for version-up will be noticed when it is supplied.**
- **Updating firmware**
  1. **Load the recovery disc that is supplied to the player and run it.**
  2. **Firmware version of the player is automatically checked. Appropriate message appears whenever necessary.**
  3. **Using remote controller's cursor key, select whether version updating is to be done or not. (Selection of Yes/No)**
  4. **a. If Yes is selected, version updating is performed.**
     b. If No is selected, only recovery is performed.
  5. **a. When updating is finished, remove the disc according to the message appearing on the screen.**
     b. Remove the disc according to the message appearing on the screen.
  6. **Turn off the power.**

Note:
If the AC power supply is shut out during version-up due to a power failure, the version-up is improperly carried out.
In such a case, replace the FLASH ROM IC and carry out the version-up again.

17. Adjustment Procedure

17.1. Service Tools and Equipment

Application	Name	Number
Tilt adjustment	DVD test disc	DVDT-S20
	TORX screw driver (T6)	Available on sales route. (T6) or RFKZ0185 [SPG]
Others	Grease	RFKXPG641
	Harnal	VFK1784 [SPG]
	Drysurf	RFKXGUD24
Confirmation	CD test disc	PVCD-K06 or any other commercially available disc
	VCD test disc	PVCD-K06 or any other commercially available disc
	Recovery disc	RFKZD03R005 [SPG]

17.2. Important points in adjustment

17.2.1. Important points in optical adjustment

- **Before starting optical adjustment, be sure to take anti-static measures.**
- **Optical pickup tilt adjustment is needed after replacement of the following components.**

1. **Optical pickup unit**
2. **Spindle motor unit**
3. **Optical pickup peripheral parts (such as rail)**

Notes

Adjustment is generally unnecessary after replacing other parts of the traverse unit. However, make adjustment if there is a noticeable degradation in picture quality. Optical adjustments cannot be made inside the optical pickup. Adjustment is generally unnecessary after replacing the traverse unit.

17.2.2. Important points in electrical adjustment

- **Follow the adjustment procedures described in this Manual.**

17.3. Storing and Handling Test Discs

- **Surface precision is vital for DVD test discs. Be sure to store and handle them carefully.**

1. Do not place discs directly onto the workbench, etc., after use.
2. Handle discs carefully in order to maintain their flatness. Place them into their case after use and store them vertically. Store discs in a cool place where they are not exposed to direct sunlight or air from air conditioners.
3. Accurate adjustment will not be possible if the disc is warped when placed on a surface made of glass, etc. If this happens, use a new test disc to make optical adjustments.
4. If adjustment is done using a warped disc, the adjustment will be incorrect and some discs will not be playable.

17.4. Optical adjustment

17.4.1. Optical pickup tilt adjustment

Measurement point	Adjustment point	Mode	Disc
	Tangential adjustment screw Tilt adjustment screw	T01 (inner periphery) play T30 (center periphery) play T43 (outer periphery) play	DVDT-S20
Measuring equipment		Adjustment value	
None (Main unit display for servicing is used.)		Adjust to the minimum jitter value.	

17.4.1.1. Adjustment procedure

1. While pressing STOP button on the main unit, press "5" on the remote control unit.
2. Confirm that "J_xxx/yyy_zz" (display1/display2) is shown on the front display.

For your information:
"yyy" and "zz" shown to the right have nothing to do with the jitter value. "yyy" is the error counter, while "zz" is the focus drive value.

Note:
Jitter value appears on the front display.

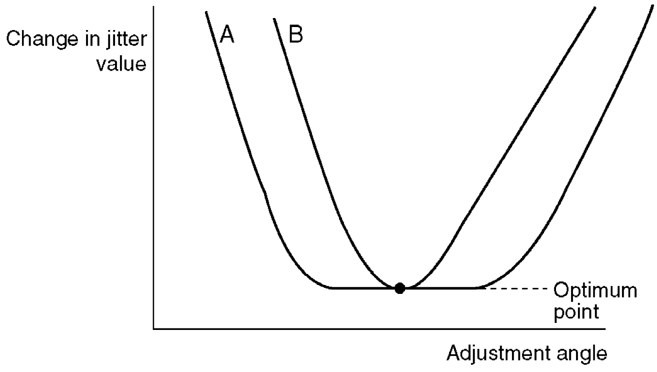
3. Play test disc T30 (center periphery).
4. Adjust tangential adjustment screw so that the jitter value is

minimized.

5. Play test disc T30 (center periphery).
6. Adjust tilt adjustment screw 1 so that the jitter value is minimized.
7. Play test disc T30 (center periphery).
8. Adjust tilt adjustment screw 2 so that the jitter value is minimized.
9. Repeat adjusting tilt adjustment screws 1 and 2 alternately until the jitter value is minimized.

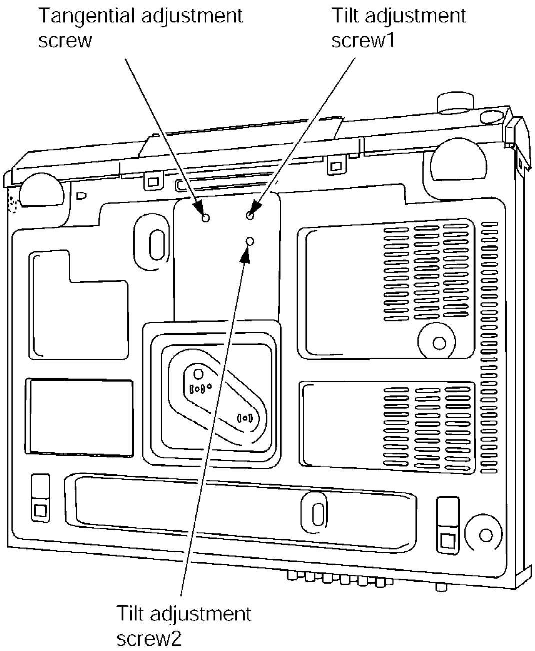
17.4.1.2. Important points

1. Make tangential adjustment first, and then make tilt adjustment.
2. Repeat adjusting two or three times to find the optimum point.
3. Finish the procedure with tilt adjustment.



Jitter value depends on the model:

1. If the jitter value changes like B, the optimum point is easy to find.
2. If the jitter value changes like A, set the optimum point near the middle.

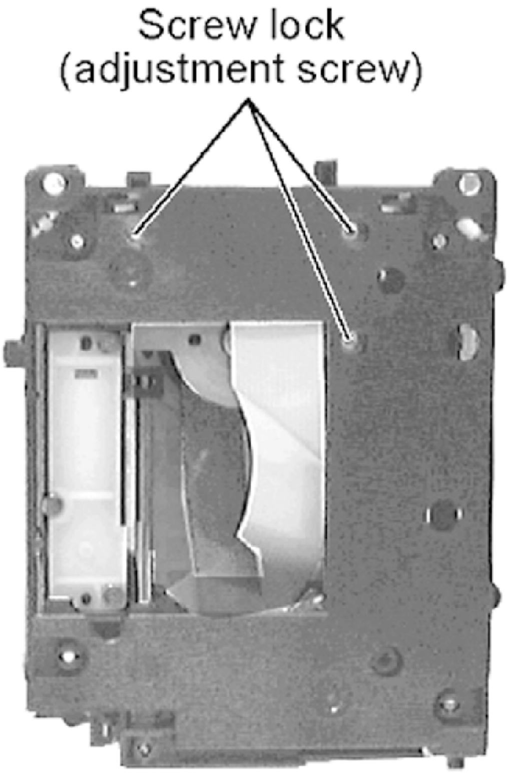

Tangential adjustment screw
Tilt adjustment screw1
Tilt adjustment screw2

17.4.1.3. Check after adjustment

Play test disc or any other disc to make sure there is no picture degradation in the inner, middle and outer peripheries, and no audio skipping. After adjustment is finished, lock each adjustment screw in position using screw lock.

17.4.1.4. Procedure for screw lock

1. **After adjustment, remove top cover, tray, clamper base and traverse unit in this sequence.**
2. **Lay the traverse unit upside down, and fix adjustment screw with screw lock.**
3. **After fixing, reassemble traverse unit, clamper base, tray and top cover.**



18. Abbreviations

INITIAL/LOGO		ABBREVIATIONS
A	A0~UP	ADDRESS
	ACLK	AUDIO CLOCK
	AD0~UP	ADDRESS BUS
	ADATA	AUDIO PES PACKET DATA
	ALE	ADDRESS LATCH ENABLE
	AMUTE	AUDIO MUTE
	AREQ	AUDIO PES PACKET REQUEST
	ARF	
	ASI	AUDIO RF
	ASO	SERVO AMP INVERTED INPUT
	ASYNC	SERVO AMP OUTPUT
		AUDIO WORD DISTINCTION SYNC
B	BCK	BIT CLOCK (PCM)
	BCKIN	BIT CLOCK INPUT
	BDO	BLACK DROP OUT
	BLKCK	SUB CODE BLOCK CLOCK
	BOTTOM	CAP. FOR BOTTOM HOLD
	BYP	BYPATH
	BYTCK	BYTE CLOCK

INITIAL/LOGO		ABBREVIATIONS
C	CAV	CONSTANT ANGULAR VELOCITY
	CBDO	CAP. BLACK DROP OUT
	CD	COMPACT DISC
	CDSCK	CD SERIAL DATA CLOCK
	CDSRDATA	CD SERIAL DATA
	CDRF	CD RF (EFM) SIGNAL
	CDV	COMPACT DISC-VIDEO
	CHNDATA	CHANNEL DATA
	CKSL	SYSTEM CLOCK SELECT
	CLV	CONSTANT LINEAR VELOCITY
	COFTR	CAP. OFF TRACK
	CPA	CPU ADDRESS
	CPCS	CPU CHIP SELECT
	CPDT	CPU DATA
	CPUADR	CPU ADDRESS LATCH
	CPUADT	CPU ADDRESS DATA BUS
	CPUIRQ	CPU INTERRUPT REQUEST
	CPRD	CPU READ ENABLE
	CPWR	CPU WRITE ENABLE
	CS	CHIP SELECT
	CSYNCIN	COMPOSITE SYNC IN
	CSYNCOUT	COMPOSITE SYNC OUT
D	DACCK	D/A CONVERTER CLOCK
	DEEMP	DEEMPHASIS BIT ON/OFF
	DEMPH	DEEMPHASIS SWITCHING
	DIG0~UP	FL DIGIT OUTPUT
	DIN	DATA INPUT
	DMSRCK	DM SERIAL DATA READ CLOCK
	DMUTE	DIGITAL MUTE CONTROL
	DO	DROP OUT
	DOUT0~UP	DATA OUTPUT
	DRF	DATA SLICE RF (BIAS)
	DRPOUT	DROP OUT SIGNAL
	DREQ	DATA REQUEST
	DRESP	DATA RESPONSE
	DSC	DIGITAL SERVO CONTROLLER
	DSLF	DATA SLICE LOOP FILTER
	DVD	DIGITAL VIDEO DISC

INITIAL/LOGO		ABBREVIATIONS
E	EC	ERROR TORQUE CONTROL
	ECR	ERROR TORQUE CONTROL REFERENCE
	ENCSEL	ENCODER SELECT
	ETMCLK	EXTERNAL M CLOCK (81MHz/ 40.5MHz)
	ETSCLK	EXTERNAL S CLOCK (54MHz)
F	FBAL	FOCUS BALANCE
	FCLK	FRAME CLOCK
	FE	FOCUS ERROR
	FFI	FOCUS ERROR AMP INVERTED INPUT
	FEO	FOCUS ERROR AMP OUTPUT
	FG	FREQUENCY GENERATOR
	FSC	FREQUENCY SUB CARRIER
	FSCK	FS (384 OVER SAMPLING) CLOCK
G	GND	COMMON GROUNDING (EARTH)
H	HA0~UP	HOST ADDRESS
	HD0~UP	HOST DATA
	HINT	HOST INTERRUPT
	HRXW	HOST READ/WRITE
I	IECOUT	IEC958 FORMAT DATA OUTPUT
	IPFRAG	INTERPOLATION FLAG
	IREF	I (CURRENT) REFERENCE
	ISEL	INTERFACE MODE SELECT
L	LDON	LASER DIODE CONTROL
	LPC	LASER POWER CONTROL
	LRCK	L CH/R CH DISTINCTION CLOCK

INITIAL/LOGO		ABBREVIATIONS
M	MA0~UP	MEMORY ADDRESS
	MCK	MEMORY CLOCK
	MCKI	MEMORY CLOCK INPUT
	MCLK	MEMORY SERIAL COMMAND CLOCK
	MDATA	MEMORY SERIAL COMMAND DATA
	MDQ0~UP	MEMORY DATA INPUT/OUTPUT
	MDQM	MEMORY DATA I/O MASK
	MLD	MEMORY SERIAL COMMAND LOAD
	MPEG	MOVING PICTURE EXPERTS GROUP
O	ODC	OPTICAL DISC CONTROLLER
	OFTR	OFF TRACKING
	OSCI	OSCILLATOR INPUT
	OSCO	OSCILLATOR OUTPUT
	OSD	ON SCREEN DISPLAY
P	P1~UP	PORT
	PCD	CD TRACKING PHASE DIFFERENCE
	PCK	PLL CLOCK
	PDVD	DVD TRACKING PHASE DIFFERENCE
	PEAK	CAP. FOR PEAK HOLD
	PLLCLK /	CHANNEL PLL CLOCK
	PLLOK	PLL LOCK
	PWMCTL	PWM OUTPUT CONTROL
	PWMDA	PULSE WAVE MOTOR DRIVE A
	PWMOA, B	PULSE WAVE MOTOR OUT A, B

INITIAL/LOGO		ABBREVIATIONS
R	RE	READ ENABLE
	RFENV	RF ENVELOPE
	RFO	RF PHASE DIFFERENCE OUTPUT
	RS	(CD-ROM) REGISTER SELECT
	RSEL	RF POLARITY SELECT
	RST	RESET
	RSV	RESERVE
S	SBI0, 1	SERIAL DATA INPUT
	SBO0	SERIAL DATA OUTPUT
	SBT0, 1	SERIAL CLOCK
	SCK	SERIAL DATA CLOCK
	SCKR	AUDIO SERIAL CLOCK RECEIVER
	SCL	SERIAL CLOCK
	SCLK	SERIAL CLOCK
	SDA	SERIAL DATA
	SEG0~UP	FL SEGMENT OUTPUT
	SELCLK	SELECT CLOCK
	SEN	SERIAL PORT ENABLE
	SIN1, 2	SERIAL DATA IN
	SOUT1, 2	SERIAL DATA OUT
	SPDI	SERIAL PORT DATA INPUT
	SPDO	SERIAL PORT DATA OUTPUT
	SPEN	SERIAL PORT R/W ENABLE
	SPRCLK	SERIAL PORT READ CLOCK
	SPWCLK	SERIAL PORT WRITE CLOCK
	SQCK	SUB CODE Q CLOCK
	SQCX	SUB CODE Q DATA READ CLOCK
	SRDATA	SERIAL DATA
	SRMADR	SRAM ADDRESS BUS
	SRMDT0~7	SRAM DATA BUS 0~7
	SS	START/STOP
	STAT	STATUS
	STCLK	STREAM DATA CLOCK
	STD0~UP	STREAM DATA
	STENABLE	STREAM DATA INPUT ENABLE
	STSEL	STREAM DATA POLARITY SELECT
	STVALID	STREAM DATA VALIDITY
	SUBC	SUB CODE SERIAL
	SBCK	SUB CODE CLOCK
	SUBQ	SUB CODE Q DATA
	SYSCLK	

		SYSTEM CLOCK

INITIAL/LOGO		ABBREVIATIONS
T	TE	TRACKING ERROR
	TIBAL	BALANCE CONTROL
	TID	BALANCE OUTPUT 1
	TIN	BALANCE INPUT
	TIP	BALANCE INPUT
	TIS	BALANCE OUTPUT 2
	TPSN	OP AMP INPUT
	TPSO	OP AMP OUTPUT
	TPSP	OP AMP INVERTED INPUT
	TRCRS	TRACK CROSS SIGNAL
	TRON	TRACKING ON
	TRSON	TRAVERSE SERVO ON

INITIAL/LOGO		ABBREVIATIONS
V	VBLANK	V BLANKING
	VCC	COLLECTOR POWER SUPPLY VOLTAGE
	VCDCONT	VIDEO CD CONTROL (TRACKING BALANCE)
	VDD	DRAIN POWER SUPPLY VOLTAGE
	VFB	VIDEO FEED BACK
	VREF	VOLTAGE REFERENCE
	VSS	SOURCE POWER SUPPLY VOLTAGE
W	WAIT	BUS CYCLE WAIT
	WDCK	WORD CLOCK
	WEH	WRITE ENABLE HIGH
	WSR	WORD SELECT RECEIVER

INITIAL/LOGO		ABBREVIATIONS
X	X	X' TAL
	XALE	X ADDRESS LATCH ENABLE
	XAREQ	X AUDIO DATA REQUEST
	XCDROM	X CD ROM CHIP SELECT
	XCS	X CHIP SELECT
	XCSYNC	X COMPOSITE SYNC
	XDS	X DATA STROBE
	XHSYNCO	X HORIZONTAL SYNC OUTPUT
	XHINT	XH INTERRUPT REQUEST
	XI	X' TAL OSCILLATOR INPUT
	XINT	X INTERRUPT
	XMW	X MEMORY WRITE ENABLE
	XO	X' TAL OSCILLATOR OUTPUT
	XRE	X READ ENABLE
	XSRMCE	X SRAM CHIP ENABLE
	XSRMOE	X SRAM OUTPUT ENABLE
	XSRMWE	X SRAM WRITE ENABLE
	XVCS	X V-DEC CHIP SELECT
	XVDS	X V-DEC CONTROL BUS STROBE
	XVSYNCO	X VERTICAL SYNC OUTPUT

19. Voltage Chart

19.1. DVD Module P.C.B.

19.2. Main P.C.B.

19.3. FL P.C.B. & Scart P.C.B & Motor P.C.B.

20. Wave Form Chart

21. Schematic Diagram Notes

- **This schematic diagram may be modified at any time with the development of new technology.**

Notes:

S901:

Close detection switch.

S902:

Open detection switch.

S6000:

Tray open / close switch (⏏ Open / Close).

S6002:

Play and memory switch (▶ Memory).

S6003:

F. skip, search and Tuning switch (▶▶|/ ▶▶ / TUNING ∧).

S6004:

Stop and Tune mode / FM mode switch (■ TUNE MODE / FM MODE).

S6005:

R. skip, search and Tuning switch (|◀◀/ ◀◀ / TUNING ∨).

S6011:

Source select switch (INPUT SELECTOR).

S6012:

Standby / on switch (⏻/I).

S6013:

RDS / Progressive switch.

S6014:

SFC (Sound Field Control) switch.

S6015:

Subwoofer level switch.

VR6000:

Main volume control.

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.

- **The supply part number is described alone in the replacement parts list.**
- **Voltage and signal line**

━━➤━━

: +B Signal line

▩➡

: CD-DA signal line

▤⇨

: Main signal line

▨⇨

: DVD (Video) signal line

▩⇨

: DVD (Audio) signal line

➡

: FM/AM signal line

▬ ➤ ▬

: -B Signal line

Caution!

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

22. Block Diagram

23. Schematic Diagram

24. Printed Circuit Board Diagram

25. Wiring Connection Diagram

26. Illustration of IC's, Transistors and Diodes

27. Terminal Function of ICs

27.1. IC2018 (C2CBHG000168): System control

Pin No.	Terminal Name	I/O	Function
1	TRY_ / CLOSE	I	Loading mechanism close SW (L: SW ON)
2	TRAY_CCW	O	Terminal for tray control 1
3	TRAY_CW	O	Terminal for tray control 2
4	TRY_OPEN	I	Loading Mechanism open SW (L: SW ON)
5	N.C	-	Not used, open
6	N.C	-	Not used, open
7	BRAKE_H	O	Terminal for tray control 3
8	BYTE	-	VSS (GND)
9	CNVSS	-	VSS (GND)
10	N.C	-	Not used, open
11	N.C	-	Not used, open
12	RESET	I	System Reset Input
13	XOUT	-	Main Clock Output (10.0 MHZ)
14	VSS	-	GND (0V)
15	XIN	-	Main Clock Input (10.0 MHZ)
16	VCC	-	Power supply (5V)
17	NMI	I	Connect to VCC, External Interrupt I/P
18	RMT	I	Remote control input
19	SYNC	I	AC failure detection input
20	N.C	-	Not used, open
21	DIVX_SEL	I	DivX Model Selection (L = No DivX, H = DivX)

Pin No.	Terminal Name	I/O	Function
22	SPK_EN	I	Speaker Protection (L = Speaker Protect OFF, H = Speaker Protect ON)
23	EDA	I/O	DATA signal for the EEPROM
24	ECK	O	CLOCK signal for the EEPROM
25	ECS	O	LAT signal for the EEPROM
26	N.C	-	Not used, open
27	TUN_SD	I	Station Detection
28	TUN_DO	I	Stereo Detection
29	TUN_CLK	O	I2C Clock for Tuner
30	TUN_DI	O	I2C Data for Tuner
31	Tx	-	Not used
32	Rx	-	Not used
33	CLK	-	Not used
34	MUTE_S	O	Mute signal for surround Audio signal
35	DVD_CMD	O	CMD signal for the DVD Module
36	DVD_STAT	I	STATUS signal from the DVD Module
37	DVD_CLK	I	CLK signal for the DVD Module
38	WIDE1	O	Control Signal for the WIDE function
39	MUT_FRNT	O	Mute signal output for Front speaker
40	MUTE_C	O	Mute signal output for Center speaker
41	EPM	-	Not used
42	MUTE_SUB	O	Mute signal output for Subwoofer
43	HP_MUTE	O	Mute signal output for Headphone
44	DVD_MUTE	I	Signal from DVD module control mute circuit
45	RGB_H	O	Mute signal 1 for video output
46	YC_H	O	Control signal for the video signal Mix
47	MUTE_L	O	MUTE signal for the Line output
48	VOL_DA	O	DATA signal for 6ch VOL ASP

Pin No.	Terminal Name	I/O	Function
49	VOL_CK	O	CLOCK signal for 6ch VOL ASP
50	SCART_ / MUTE	O	Line out for SCART terminal
51	MIC_MUTE	O	Muting circuit for the MIC input
52	SS_DAT	O	DATA Signal for S.SRND IC
53	SS_CLK	O	Clock Signal for S.SRND IC
54	N.C	-	Not used, open
55	HB_MUTE	O	H.Bass Mute
56	HB_LVL	-	Not used, open
57	CMIX	-	Not used, open
58	SURR_FC1	O	Surround Freq. Limiter 1
59	SURR_FC2	-	Not used, open
60	N.C	-	Not used, open
61	N.C	-	Not used, open
62	VCC	-	Power supply 5.0V
63	FAN_CTRL	O	FAN Control output
64	VSS	-	GND (0V)
65	RF_DET	-	Not used, open
66	RF_PCON	-	Not used, open
67	RF_LINK	-	Not used, open
68	DVD_PCNT	O	Control signal for the power for the DVD Module
69	N.C	-	Not used, open
70	PCONT	O	Control Signal for the Power Control Relay
71	MUTE_H	O	HIC Mute
72	DC_DET	I	Signal from the DC Detection circuit
73	RDS_CK	I	Clock signal from the RDS decoder
74	RDS_DAT	I	Data signal from the RDS decoder
75	JOG_B	I	Signal B from Volume JOG
76	JOG_A	I	Signal A from Volume JOG
77	N.C	-	Not used, open
78	N.C	-	Not used, open
79	N.C	-	Not used, open
80	N.C	-	Not used, open
81	FLD_DA	I	Data input for the FL Driver
82	N.C	-	Not used, open

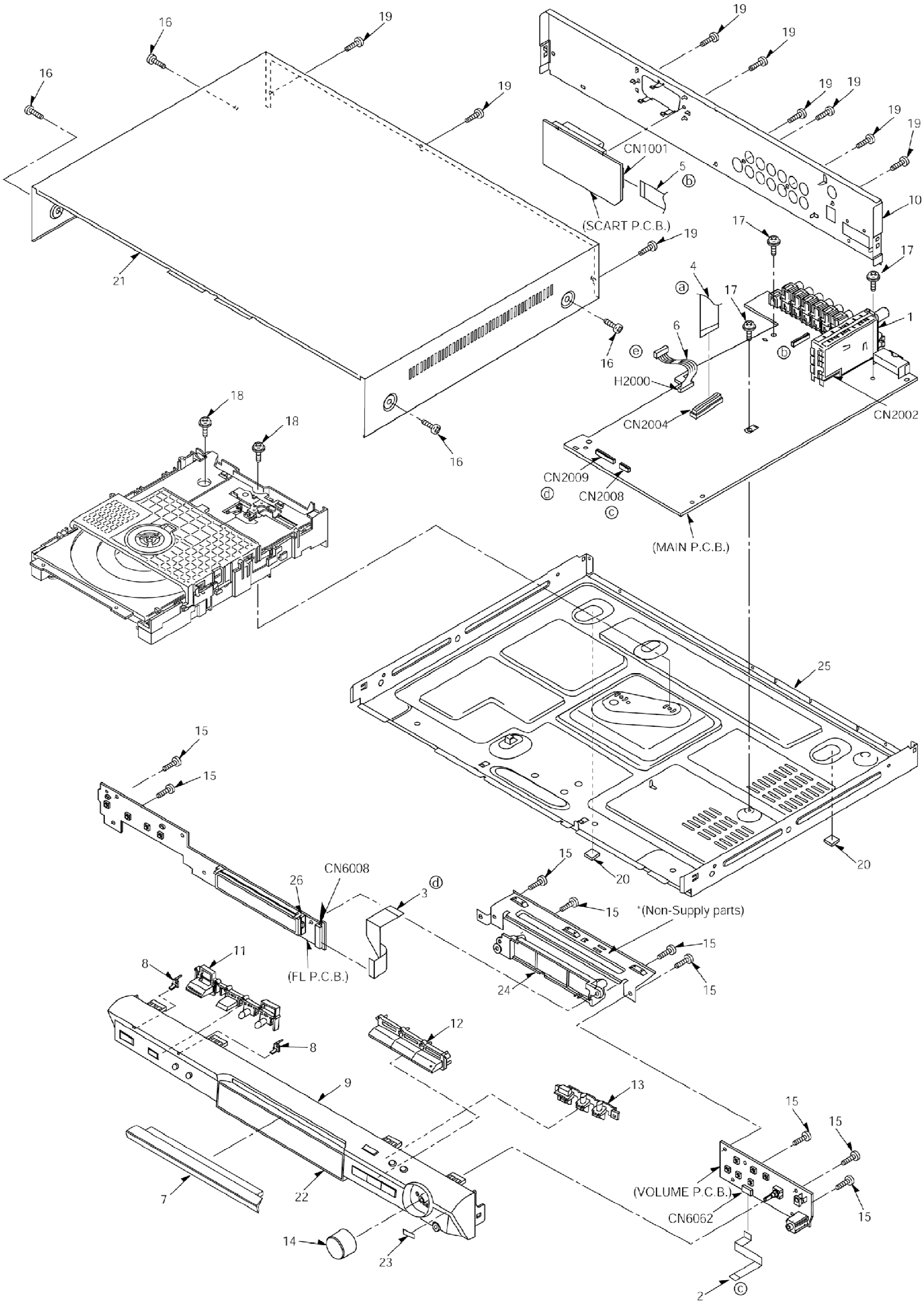
Pin No.	Terminal Name	I/O	Function
83	N.C	-	Not used, open
84	N.C	-	Not used, open
85	N.C	-	Not used, open
86	KEY 3	-	Not used, open
87	FLD_RST	O	Reset signal for the FL driver
88	FLD_CS	O	Latch signal for the FL driver
89	FLD_CK	O	Clock signal for the FL driver
90	N.C	-	Not used, open
91	KEY 2	I	Key 2 line input
92	N.C	-	Not used, open
93	DES3	I	Region setting for DVD
94	MODEL_ / SEL	I	Model selector
95	DES1	I	Region setting for Tuner
96	AVSS	-	Analog power supply input
97	KEY1	I	Key 1 line input
98	VREF	-	Reference voltage input
99	AVCC	-	Analog power supply input
100	N.C	-	Not used, open

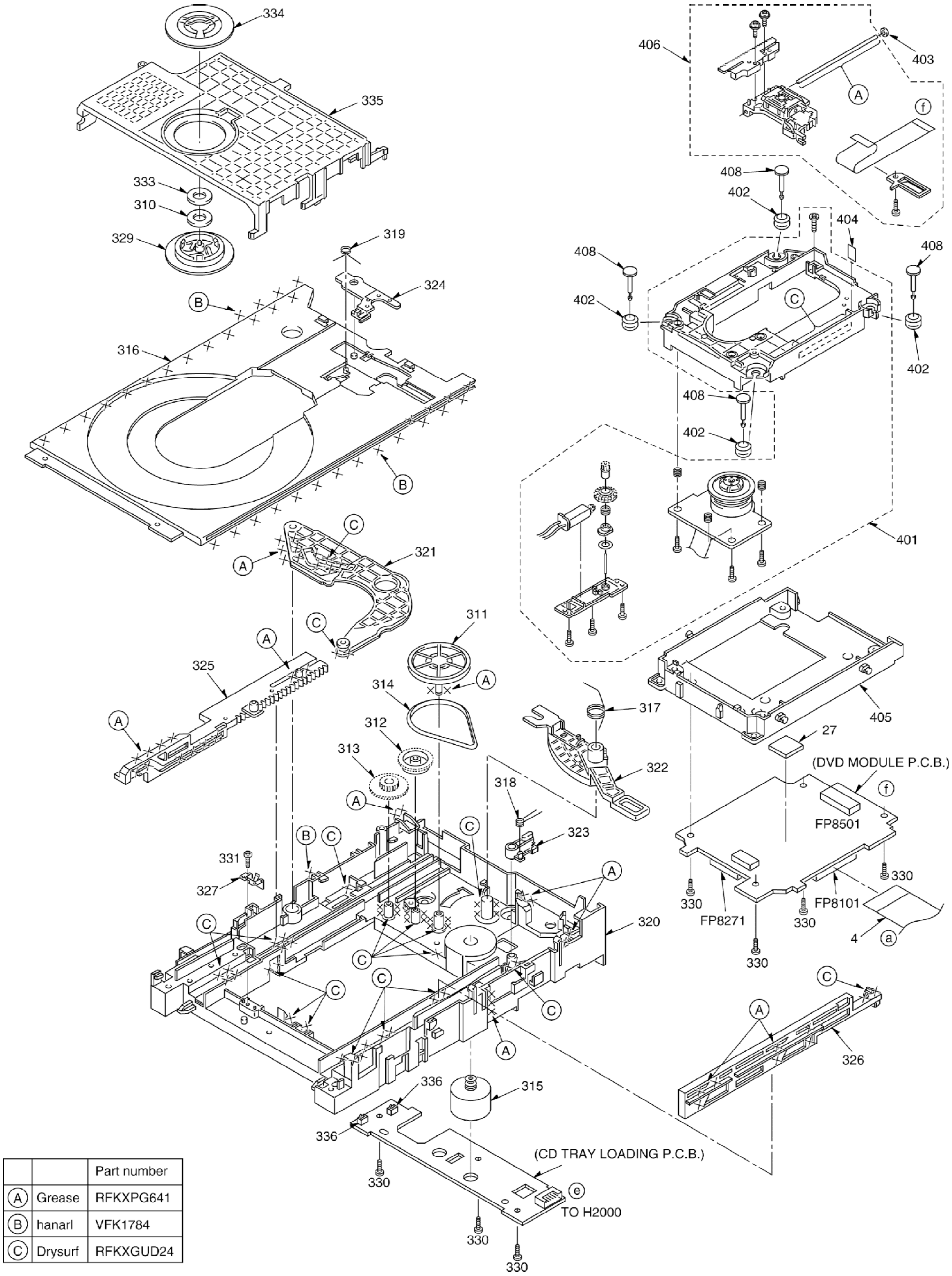
28. Parts Location and Replacement Parts List

Notes:
***Important safety notice:**
Components identified by ⚠ mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture’s specified parts shown in the parts list.
***Warning: This product uses a laser diode. Refer to caution statements.**
***Capacity values are in microfarads (μ F) unless specified otherwise, P=Pico-farads (pF), F= Farads (F).**
***Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM).**
***The parenthesized indications in the Remarks columns specify the model names and areas. (Refer to the cover page)**
***The marking (RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.**
***Reference for O/I book languages are as follows:**
[En: English]
***[M] indicates in the Remarks columns indicates parts supplied by PAVCSG.**
***[SPG] indicates in the Remarks columns indicates parts supplied by SPG [PAVC].**

28.1. Loading Mechanism, Traverse Unit & Cabinet

28.1.1. Loading Mechanism, Traverse Unit & Cabinet Parts Location


16
16
19
19
19
19
19
19
19
19
CN1001
5
ⓑ
(SCART P.C.B.)
10
17
17
19
21
4
ⓐ
17
1
6
ⓔ
16
ⓑ
H2000
CN2002
CN2004
18
18
16
CN2009
ⓓ
CN2008
ⓒ
(MAIN P.C.B.)
25
15
15
20
20
15
CN6008
26
ⓓ
3
15
*(Non-Supply parts)
15
15
24
(FL P.C.B.)
8
11
8
12
9
13
15
15
7
22
(VOLUME P.C.B.)
CN6062
15
14
23
2
ⓒ


334
335
333
310
329
319
324
B
316
B
C
321
A
C
A
325
A
311
A
314
312
313
A
317
322
318
323
B
C
C
331
327
C
A
320
C
C
C
C
C
A
336
315
336
330
(CD TRAY LOADING P.C.B.)
e
TO H2000
330
330
406
403
A
f
408
402
404
408
408
402
C
402
408
402
401
405
27
(DVD MODULE P.C.B.)
f
FP8501
330
330
FP8271
330
FP8101
4
a
330
C
A
326

		Part number
Ⓐ	Grease	RFKXPG641
Ⓑ	hanarl	VFK1784
Ⓒ	Drysurf	RFKXGUD24

28.1.2. Traverse and Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	J3CCBC000008	TUNER PACK	[M]
2	REEX0426	10P FFC WIRE (PANEl)	[M]
3	REEX0427	19P FFC WIRE (FL)	[M]
4	REEX0429	50P FFC (MECHA)	[M]
5	REEX0466	10P FFC WIRE	[M]
6	REXX0384	7P FLAT WIRE (DVD)	[M]
7	RYQX0207-S	DVD LID ASS'Y	[M]
8	RGLX0105-Q	LIGHTING PIECE	[M]
9	RGPX0170G-S	FRONT PANEL	[M]
10	RGRX0043C-C1	REAR PANEL	[M]
11	RGUX0601-S	POWER BUTTON	[M]
12	RGUX0602-S	OPERATION BUTTON	[M]
13	RGUX0603-S	REV-FWD BUTTON	[M]
14	RGWX0076-S	VOLUME KNOB	[M]
15	RHD26046	SCREW	[M]
16	RHD30007-1SJ	SCREW	[M]
17	RHD30090-1	SCREW	[M]
18	RHD30102-1	SCREW	[M]
19	RHD30119	SCREW	[M]
20	RKA0059-K	LEG RUBBER	[M]
21	RKMX0107-S	TOP CABINET	[M]
22	RKWX0242-Q	FL WINDOW	[M]
23	RKWX0243-S	SENSOR WINDOW	[M]
24	RMAX0071	MECHA SUPPORT	[M]
25	RMKX0102	BOTTOM CHASSIS	[M]
26	RMNX0149	FL HOLDER	[M]
27	RMX0290	PLASTIC SHEET	[M]
		TRAVERSE DECK	
310	RHM0003-J	MAGNET	[M]
311	RDG0547	PULLEY GEAR	[M]
312	RDG0548	RELAY GEAR	[M]
313	RDG0549	DRIVE GEAR	[M]
314	RDV0070	BELT	[M]
315	REM0102	MOTOR UNIT	[M]
316	RGQ0395-K	TRAY	[M]
317	RME0350	CHANGE LEVER SPRING	[M]
318	RME0351	LOCK LEVER SPRING	[M]
319	RME0353	TRAY SLIDER SPRING	[M]
320	RMK0591	MECHA CHASSIS	[M]
321	RML0627-2	DRIVE ARM	[M]
322	RML0628	CHANGE LEVER	[M]
323	RML0629	LOCK LEVER	[M]
324	RML0631	TRAY SLIDER	[M]
325	RMM0247-2	DRIVE RACK	[M]
326	RMM0248	SUB RACK	[M]
327	RMC0387	SUPPORT SPRING	[M]
329	RMR1446-X	CLAMPER	[M]
330	XTN26+6GFJ	SCREW	[M]
331	XTV2+6GFJ	SCREW	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
333	XWG6FFY	WASHER	[M]
334	RMR1447-X	MAGNET HOLDER	[M]
335	RMR1468-K	CLAMP PLATE	[M]
336	RSH1A044-1A	SW OPEN	[M]
401	RAE2012Z-S	DU69U BLK	[M]
402	RMG0598-A	FLOATING RUBBER	[M]
403	RMG0617-H	CUSHION RUBBER A	[M]
404	RMG0618-H	CUSHION RUBBER B	[M]
405	RMR1596-X2	MIDDLE CHASSIS	[M]
406	RXQ1252	DVD OPU SUB ASS'Y	[M]
408	RMS0789	FIXED PIN	[M]

28.2. Component Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARDS	
	REP3867D	DVD MODULE P.C.B	[M] (RTL)
	REPX0485A	MAIN P.C.B	[M] (RTL)
	REPX0457A	FL P.C.B	[M] (RTL)
	REPX0485A	SCART P.C.B	[M] (RTL)
	REP3288A	TRAY LOADING P.C.B	[M] (RTL)
	REPX0457A	VOLUME P.C.B	[M] (RTL)
		INTEGRATED CIRCUITS	
IC904	C0GAH0000002	IC MOTOR DRIVER	[M]
IC1001	C9ZB00000431	IC VIDEO DRIVE	[M]
IC1003	C1AB00001731	IC VIDEO BUFFER	[M]
IC2006	C9ZB00000466	IC VIDEO DRIVE	[M]
IC2009	C1AB00001486	IC VIDEO BUFFER	[M]
IC2010	C0ABBB000118	IC BUFFER AMP	[M]
IC2011	C1BB00000845	IC ASP	[M]
IC2013	C0AABB000125	IC HP AMP	[M]
IC2014	C1BB00000979	IC ANALOG SURROUND	[M]
IC2015	C0ABBB000118	IC BUFFER AMP	[M]
IC2018	C2CBHG000168	IC MICRO-PROCESSOR	[M]
IC2020	C1BB00001008	IC RDS	[M]
IC2601	C0ABBB000118	IC BUFFER AMP	[M]
IC2602	C0ABBB000118	IC BUFFER AMP	[M]
IC2801	C0DAAZG00012	IC DC-DC CONVERTER	[M]
IC2802	C0CBADG00023	IC 5V REGULATOR	[M]
IC2803	C0DBEZG00021	IC REGULATOR	[M]
IC6000	C0HBB0000044	IC DISPLAY	[M]
IC8001	MN2DS0003APH	IC DV2.1 LSI	[M]
IC8051	C3ABPG000133	IC 64M DRAM	[M]
IC8111	C0CBCBD00018	IC POWER SUPPLY	[M]
IC8251	C0GBG0000048	IC MOTOR DRIVER	[M]
IC8421	C0FBBK000050	IC AUDIO DAC	[M]
IC8601	C0EBE0000384	IC VOLTAGE DETECTING	[M]
IC8606	C0EBA0000031	IC RESET	[M]
IC8651	RFKWMH82B160	IC 16M FLASH ROM	[SPG]

Ref. No.	Part No.	Part Name & Description	Remarks
IC8691	C0JBAA000346	IC AND GATE LOGIC	[M]
IC8695	C0JBAA000346	IC AND GATE LOGIC	[M]
		TRANSISTORS	
Q1001	2SB0709AHL	TRANSISTOR	[M]
Q1004	UNR221200L	TRANSISTOR	[M]
Q1005	2SD0601AHL	TRANSISTOR	[M]
Q1006	UNR221200L	TRANSISTOR	[M]
Q1007	UNR211H00L	TRANSISTOR	[M]
Q1008	XN0460100L	TRANSISTOR	[M]
Q1010	B1AAKD000012	TRANSISTOR	[M]
Q1101	2SD0601AHL	TRANSISTOR	[M]
Q1201	2SD0601AHL	TRANSISTOR	[M]
Q2000	B1GBCFLL0037	TRANSISTOR	[M]
Q2003	B1GBCFJN0033	TRANSISTOR	[M]
Q2004	B1GBCFJN0033	TRANSISTOR	[M]
Q2005	B1GBCFJN0033	TRANSISTOR	[M]
Q2006	2SB0709AHL	TRANSISTOR	[M]
Q2007	2SB0709AHL	TRANSISTOR	[M]
Q2026	B1GDCFGA0014	TRANSISTOR	[M]
Q2028	B1GBCFJN0033	TRANSISTOR	[M]
Q2029	B1GBCFJN0033	TRANSISTOR	[M]
Q2030	B1GBCFJN0033	TRANSISTOR	[M]
Q2100	B1GFGCAA0001	TRANSISTOR	[M]
Q2102	B1GFGCAA0001	TRANSISTOR	[M]
Q2103	B1GDCFGA0018	TRANSISTOR	[M]
Q2104	B1GFGCAA0001	TRANSISTOR	[M]
Q2105	B1GDCFGA0018	TRANSISTOR	[M]
Q2200	B1GFGCAA0001	TRANSISTOR	[M]
Q2201	B1GDCFGA0018	TRANSISTOR	[M]
Q2301	B1GDCFGA0018	TRANSISTOR	[M]
Q2302	B1GFGCAA0001	TRANSISTOR	[M]
Q2306	B1GFGCAA0001	TRANSISTOR	[M]
Q2500	B1GDCFGA0018	TRANSISTOR	[M]
Q2600	B1GDCFGA0018	TRANSISTOR	[M]
Q2601	B1GFGCAA0001	TRANSISTOR	[M]
Q2604	B1ABEB000002	TRANSISTOR	[M]
Q2605	B1GDCFGA0018	TRANSISTOR	[M]
Q2607	B1ABCE000016	TRANSISTOR	[M]
Q2608	B1ABEB000002	TRANSISTOR	[M]
Q2609	B1GDCFGA0018	TRANSISTOR	[M]
Q2701	B1GDCFGA0014	TRANSISTOR	[M]
Q2801	B1ADCF000001	TRANSISTOR	[M]
Q2803	B1BCCG000023	TRANSISTOR	[M]
Q2804	B1ABCE000016	TRANSISTOR	[M]
Q2805	B1ABCE000016	TRANSISTOR	[M]
Q2806	B1BCCD000019	TRANSISTOR	[M]
Q2807	B1BCCD000019	TRANSISTOR	[M]
Q2808	B1ADCF000001	TRANSISTOR	[M]
Q2809	B1ACKD000005	TRANSISTOR	[M]
Q2813	B1AAKD000014	TRANSISTOR	[M]
Q2814	B1BACD000018	TRANSISTOR	[M]
Q2816	B1BACD000018	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q2818	B1GBCFJA0028	TRANSISTOR	[M]
Q6074	B1GBCFJN0033	TRANSISTOR	[M]
Q8550	2SB1219AHL	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	2SB09700RL	TRANSISTOR	[M]
Q8560	2SD1819A0L	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	2SB09700RL	TRANSISTOR	[M]
Q8606	2SD1819A0L	TRANSISTOR	[M]
Q8607	2SD1819A0L	TRANSISTOR	[M]
QR8111	UNR521400L	TRANSISTOR	[M]
QR8112	UNR521400L	TRANSISTOR	[M]
QR8420	UNR521100L	TRANSISTOR	[M]
QR8571	UNR511V00L	TRANSISTOR	[M]
		DIODES	
D1002	B0BC01300001	DIODE	[M]
D2000	B0ACCE000003	DIODE	[M]
D2001	B0ACCE000003	DIODE	[M]
D2002	B0ACCE000003	DIODE	[M]
D2003	B0ACCK000005	DIODE	[M]
D2041	B0EAKM000117	DIODE	[M]
D2042	B0EAKM000117	DIODE	[M]
D2601	B0ACCK000005	DIODE	[M]
D2602	B0ACCK000005	DIODE	[M]
D2603	B0ACCK000005	DIODE	[M]
D2801	B0JCPD000025	DIODE	[M]
D2802	B0BC7R500001	DIODE	[M]
D2803	B0ACCK000005	DIODE	[M]
D2804	B0BC9R000008	DIODE	[M]
D2805	B0ECKM000016	DIODE	[M]
D2806	B0ECKM000016	DIODE	[M]
D2807	B0ACCK000005	DIODE	[M]
D2808	B0ACCK000005	DIODE	[M]
D2809	B0EAKM000117	DIODE	[M]
D2810	B0EAKM000117	DIODE	[M]
D2811	B0EAKM000117	DIODE	[M]
D2812	B0EAKM000117	DIODE	[M]
D2813	B0EAKM000117	DIODE	[M]
D2814	B0EAKM000117	DIODE	[M]
D2815	B0EAKM000117	DIODE	[M]
D2816	B0EAKM000117	DIODE	[M]
D2817	B0EAKM000117	DIODE	[M]
D2818	MAZ82200ML	DIODE	[M]
D2822	B0FBAM000010	DIODE	[M]
D2823	B0BC5R600003	DIODE	[M]
D2824	B0BC7R500001	DIODE	[M]
D2825	B0EAKM000117	DIODE	[M]
D2826	B0EAKM000117	DIODE	[M]
D2827	B0EAKM000117	DIODE	[M]
D2829	B0ACCK000005	DIODE	[M]
D2830	B0BC01000014	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D2831	B0EAKM000117	DIODE	[M]
D2850	B0ACCK000005	DIODE	[M]
D2851	B0ADCJ000020	DIODE	[M]
D2852	B0ACCK000005	DIODE	[M]
D2853	B0ACCK000005	DIODE	[M]
D6000	B3AAA0000583	DIODE	[M]
D6006	B0BC5R000009	DIODE	[M]
D6008	B0BC5R000009	DIODE	[M]
D6010	B3AAA0000583	DIODE	[M]
D8231	MA2J11100L	DIODE	[M]
D8550	MA2J11100L	DIODE	[M]
D8571	MA2J72800L	DIODE	[M]
		CHIP INDUCTORS	
LB8001	J0JHC0000045	CHIP INDUCTOR	[M]
LB8002	J0JHC0000045	CHIP INDUCTOR	[M]
LB8301	J0JCC0000119	CHIP INDUCTOR	[M]
LB8302	J0JCC0000119	CHIP INDUCTOR	[M]
LB8303	J0JCC0000119	CHIP INDUCTOR	[M]
LB8304	J0JCC0000119	CHIP INDUCTOR	[M]
LB8305	J0JCC0000119	CHIP INDUCTOR	[M]
LB8401	ERJ2GEJ151X	CHIP RESISTOR	[M]
LB8421	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8422	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8423	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8424	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8425	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8426	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8427	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8428	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8429	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8430	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8491	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8502	J0JHC0000045	CHIP INDUCTOR	[M]
LB8503	ERJ2GE0R00X	CHIP RESISTOR	[M]
LB8504	J0JCC0000119	CHIP INDUCTOR	[M]
LB8505	J0JCC0000119	CHIP INDUCTOR	[M]
LB8507	J0JCC0000119	CHIP INDUCTOR	[M]
LB8511	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8512	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8513	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8514	ERJ3GEY0R00V	CHIP RESISTOR	[M]
LB8690	J0JCC0000091	CHIP INDUCTOR	[M]
LB8691	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8692	ERJ2GEJ101X	CHIP RESISTOR	[M]
LB8693	ERJ2GEJ101X	CHIP RESISTOR	[M]
		VARIABLE RESISTOR	
VR6000	EVEKE2F3024M	VR VOLUME JOG	[M]
		SWITCHES	

Ref. No.	Part No.	Part Name & Description	Remarks
S6000	EVQ21405R	SW OPEN/CLOSE	[M]
S6001	EVQ21405R	SW F.SKIP	[M]
S6002	EVQ21405R	SW R.SKIP	[M]
S6003	EVQ21405R	SW STOP	[M]
S6004	EVQ21405R	SW PAUSE	[M]
S6005	EVQ21405R	SW PLAY	[M]
S6011	EVQ21405R	SW POWER	[M]
S6012	EVQ21405R	SW INPUT SELECT	[M]
S6013	EVQ21405R	SW PROGRESSIVE	[M]
S6014	EVQ21405R	SW H.BASS	[M]
		CONNECTORS	
CN901	K1KA07B00027	7P CONNECTOR	[M]
CN1001	K1MN19B00026	19P CONNECTOR	[M]
CN2002	K1KA10A00263	10P CONNECTOR	[M]
CN2004	K1MN50A00008	50P CONNECTOR	[M]
CN2005	K1MN19A00036	19P CONNECTOR	[M]
CN2008	K1MN10A00052	10P CONNECTOR	[M]
CN2009	K1MN19A00036	19P CONNECTOR	[M]
CN6008	K1MN19B00026	19P CONNECTOR	[M]
CN6032	K1MN10B00088	10P CONNECTOR	[M]
FP8101	K1MN50B00031	50P CONNECTOR	[M]
FP8201	K1MN06B00080	6P CONNECTOR	[M]
FP8501	K1MN26B00094	26P CONNECTOR	[M]
		COILS	
L1002	J0JBC0000015	CHIP INDUCTOR	[M]
L1020	J0JBC0000015	CHIP INDUCTOR	[M]
L1021	J0JBC0000015	CHIP INDUCTOR	[M]
L1022	J0JBC0000015	CHIP INDUCTOR	[M]
L1023	J0JBC0000015	CHIP INDUCTOR	[M]
L2000	G0C3R3JA0027	COIL	[M]
L2001	G0C101JA0052	INDUCTOR	[M]
L2002	G0C101JA0052	INDUCTOR	[M]
L2010	ELESN220JA	COIL	[M]
L2022	J0JBC0000015	CHIP INDUCTOR	[M]
L2023	J0JBC0000015	CHIP INDUCTOR	[M]
L2024	J0JBC0000015	CHIP INDUCTOR	[M]
L2025	J0JBC0000015	CHIP INDUCTOR	[M]
L2026	J0JBC0000015	CHIP INDUCTOR	[M]
L2027	J0JBC0000015	CHIP INDUCTOR	[M]
L2028	J0JBC0000019	CHIP INDUCTOR	[M]
L2801	G0ZZ00001930	COIL	[M]
L2802	G0A200D00002	COIL	[M]
L2803	G0A200D00002	COIL	[M]
L6000	J0JBC0000019	CHIP INDUCTOR	[M]
L6001	J0JBC0000019	CHIP INDUCTOR	[M]
L6002	J0JBC0000019	CHIP INDUCTOR	[M]
L6003	J0JBC0000041	CHIP INDUCTOR	[M]
L8201	G1C100K00020	CHIP INDUCTOR	[M]
L8202	J0JCC0000079	FILTER	[M]
L8301	G1C100KA0055	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L8302	J0JCC0000079	FILTER	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
		COMPONENT COMBINATION	
Z6000	B3RAB0000025	REMOTE SENSOR	[M]
		OSCILLATORS	
X2000	H2B100500004	CERAMIC RESONATORS	[M]
X2001	H0H433400001	CRYSTAL	[M]
X8621	H0J270500085	CRYSTAL	[M]
		DISPLAY TUBE	
FL6000	A2BD00000108	FL DISPLAY	[M]
FL8101	F1H0J1050022	CHIP CAPACITOR	[M]
FL8102	F1H0J1050022	CHIP CAPACITOR	[M]
FL8103	F1H0J1050022	CHIP CAPACITOR	[M]
FL8104	F1J1E1040022	CHIP CAPACITOR	[M]
		FUSE PROTECTOR	
FP2000	K5G202AA0002	FUSE PROTECTOR	[M] ⚠
		HOLDER	
H2000	RMR0316	7P WIRE HOLDER	[M]
		JACKS	
JK1001	K1FB121A0007	JK SCART TERMINAL	[M]
JK2000	K1FB125B0097	JK SYSTEM CONNECTOR	[M]
JK2001	K2HZ929B0001	JACK	[M]
JK6002	K2HC103A0023	JACK	[M]
		EARTH TERMINAL	
E2000	K4CZ01000027	TERMINAL	[M]
		CHIP RESISTORS	
W601	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W604	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W1009	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W1019	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W1020	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W1021	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W1022	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W1208	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2001	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2002	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2003	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2004	ERJ3GEY0R00V	CHIP RESISTOR	[M]

[illegible]	[illegible]	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W2005	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2009	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2012	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2013	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2014	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2015	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2016	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2017	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2018	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2019	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2023	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2026	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2027	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2028	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2029	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2030	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2031	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2032	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2033	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2041	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2042	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2043	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2044	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2045	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2049	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2051	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2052	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2055	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2056	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2057	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2058	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2059	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2060	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2061	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2062	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2064	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2065	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2068	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2071	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2072	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W2074	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2076	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2086	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2119	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W2128	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W3000	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W4000	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W6001	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6002	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6003	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6005	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6006	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6010	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6011	ERJ6GEY0R00V	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W6012	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6013	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6014	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6015	ERJ3GEY0R00V	CHIP RESISTOR	[M]
W6031	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6033	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6034	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6035	ERJ6GEY0R00V	CHIP RESISTOR	[M]
W6036	ERJ3GEY0R00V	CHIP RESISTOR	[M]
		RESISTORS	
R1003	ERJ3RBD102V	1K 3W	[M]
R1004	ERJ3RBD102V	1K 3W	[M]
R1009	ERJ3GEYJ223V	22K 1/16W	[M]
R1015	ERJ3GEYJ183V	18K 1/16W	[M]
R1016	ERJ3GEYJ223V	22K 1/16W	[M]
R1017	ERJ3GEYJ223V	22K 1/16W	[M]
R1018	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1019	ERJ3GEYJ223V	22K 1/16W	[M]
R1020	ERJ3GEYF750V	75 1/16W	[M]
R1021	ERJ3GEYF750V	75 1/16W	[M]
R1022	ERJ3GEYF750V	75 1/16W	[M]
R1023	ERJ3GEYF750V	75 1/16W	[M]
R1024	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1025	ERJ3GEYJ103V	10K 1/16W	[M]
R1026	ERJ3GEYJ103V	10K 1/16W	[M]
R1027	ERJ3GEYJ471V	470 1/16W	[M]
R1030	ERJ3GEYF750V	75 1/16W	[M]
R1031	ERJ3GEYF750V	75 1/16W	[M]
R1040	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1041	ERJ3GEYJ101V	100 1/16W	[M]
R1042	ERJ3GEYJ103V	10K 1/16W	[M]
R1101	ERJ3GEYJ821V	820 1/16W	[M]
R1102	ERJ3GEYJ821V	820 1/16W	[M]
R1103	ERJ3GEYJ221V	220 1/16W	[M]
R1104	ERJ3GEYJ104V	100K 1/16W	[M]
R1201	ERJ3GEYJ821V	820 1/16W	[M]
R1202	ERJ3GEYJ821V	820 1/16W	[M]
R1203	ERJ3GEYJ221V	220 1/16W	[M]
R1204	ERJ3GEYJ104V	100K 1/16W	[M]
R2000	ERJ3GEYJ221V	220 1/16W	[M]
R2001	ERJ3GEYJ221V	220 1/16W	[M]
R2002	ERJ3GEYJ221V	220 1/16W	[M]
R2003	ERJ3GEYJ221V	220 1/16W	[M]
R2006	ERJ3GEYJ221V	220 1/16W	[M]
R2007	ERJ3GEYJ102V	1K 1/16W	[M]
R2008	ERJ3GEYJ103V	10K 1/16W	[M]
R2011	ERJ3GEYJ473V	47K 1/16W	[M]
R2012	ERJ3GEYJ221V	220 1/16W	[M]
R2013	ERJ3GEYJ221V	220 1/16W	[M]
R2014	ERJ3GEYJ221V	220 1/16W	[M]
R2016	ERJ3GEYJ221V	220 1/16W	[M]
R2017	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2018	ERJ3GEYJ221V	220 1/16W	[M]
R2019	ERJ3GEYJ221V	220 1/16W	[M]
R2021	ERJ3GEYJ473V	47K 1/16W	[M]
R2022	ERJ3GEYJ473V	47K 1/16W	[M]
R2023	ERJ3GEYJ103V	10K 1/16W	[M]
R2025	ERJ3GEYJ221V	220 1/16W	[M]
R2026	ERJ3GEYJ221V	220 1/16W	[M]
R2027	ERJ3GEYJ221V	220 1/16W	[M]
R2028	ERJ3GEYJ102V	1K 1/16W	[M]
R2029	ERJ3GEYJ221V	220 1/16W	[M]
R2030	ERJ3GEYJ221V	220 1/16W	[M]
R2031	ERJ3GEYJ221V	220 1/16W	[M]
R2032	ERJ3GEYJ221V	220 1/16W	[M]
R2033	ERJ3GEYJ221V	220 1/16W	[M]
R2034	ERJ3GEYJ221V	220 1/16W	[M]
R2035	ERJ3GEYJ221V	220 1/16W	[M]
R2036	ERJ3GEYJ102V	1K 1/16W	[M]
R2037	ERJ3GEYJ102V	1K 1/16W	[M]
R2038	ERJ3GEYJ221V	220 1/16W	[M]
R2039	ERJ3GEYJ221V	220 1/16W	[M]
R2040	ERJ3GEYJ221V	220 1/16W	[M]
R2041	ERJ3GEYJ221V	220 1/16W	[M]
R2043	ERJ3GEYJ221V	220 1/16W	[M]
R2047	ERJ3GEYJ221V	220 1/16W	[M]
R2048	ERJ3GEYJ221V	220 1/16W	[M]
R2049	ERJ3GEYJ221V	220 1/16W	[M]
R2050	ERJ3GEYJ221V	220 1/16W	[M]
R2051	ERJ3GEYJ221V	220 1/16W	[M]
R2052	ERJ3GEYJ221V	220 1/16W	[M]
R2053	ERJ3GEYJ221V	220 1/16W	[M]
R2054	ERJ3GEYJ221V	220 1/16W	[M]
R2056	ERJ3GEYJ473V	47K 1/16W	[M]
R2057	ERJ3GEYJ473V	47K 1/16W	[M]
R2058	ERJ3GEYJ563V	56K 1/16W	[M]
R2059	ERJ3GEYJ221V	220 1/16W	[M]
R2060	ERJ3GEYJ101V	100 1/16W	[M]
R2061	ERJ3GEYJ221V	220 1/16W	[M]
R2062	ERJ3GEYJ221V	220 1/16W	[M]
R2064	ERJ3GEYJ101V	100 1/16W	[M]
R2065	ERJ3GEYJ103V	10K 1/16W	[M]
R2066	ERJ3GEYJ103V	10K 1/16W	[M]
R2067	ERJ3GEYJ103V	10K 1/16W	[M]
R2068	ERJ3GEYJ103V	10K 1/16W	[M]
R2069	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2070	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2071	ERJ3GEYJ821V	820 1/16W	[M]
R2072	ERJ3GEYJ101V	100 1/16W	[M]
R2073	ERJ3GEY0R00V	0 1/16W	[M]
R2074	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2076	ERJ3GEYJ104V	100K 1/16W	[M]
R2077	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2078	ERJ3GEYJ471V	470 1/16W	[M]
R2079	ERJ3GEYJ223V	22K 1/16W	[M]
R2080	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2082	ERJ3GEYJ473V	47K 1/16W	[M]
R2083	ERJ3GEYJ681V	680 1/16W	[M]
R2085	ERJ3GEY0R00V	0 1/16W	[M]
R2087	ERJ3GEYJ102V	1K 1/16W	[M]
R2089	ERJ3GEYJ104V	100K 1/16W	[M]
R2090	ERJ3GEYJ102V	1K 1/16W	[M]
R2091	ERJ3GEYJ102V	1K 1/16W	[M]
R2092	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2093	ERJ3GEYJ223V	22K 1/16W	[M]
R2094	ERJ3GEYJ223V	22K 1/16W	[M]
R2100	ERJ3GEYJ102V	1K 1/16W	[M]
R2101	ERJ3GEYJ473V	47K 1/16W	[M]
R2106	ERJ3GEYJ102V	1K 1/16W	[M]
R2107	ERJ3GEYJ104V	100K 1/16W	[M]
R2108	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2111	ERJ3GEYJ333V	33K 1/16W	[M]
R2112	ERJ3GEYJ103V	10K 1/16W	[M]
R2113	ERJ3GEYJ103V	10K 1/16W	[M]
R2114	ERJ3GEYJ103V	10K 1/16W	[M]
R2115	ERJ3GEYJ273V	27K 1/16W	[M]
R2116	ERJ3GEYJ104V	100K 1/16W	[M]
R2117	ERJ3GEYJ104V	100K 1/16W	[M]
R2127	ERJ3GEYJ104V	100K 1/16W	[M]
R2128	ERJ3GEYJ102V	1K 1/16W	[M]
R2129	ERJ3GEYJ123V	12K 1/16W	[M]
R2130	ERJ3GEYJ103V	10K 1/16W	[M]
R2131	ERJ3GEYJ103V	10K 1/16W	[M]
R2132	ERJ3GEYJ103V	10K 1/16W	[M]
R2133	ERJ3GEYJ103V	10K 1/16W	[M]
R2134	ERJ3GEYJ103V	10K 1/16W	[M]
R2135	ERJ3GEYJ103V	10K 1/16W	[M]
R2144	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2145	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2146	ERJ3GEYJ333V	33K 1/16W	[M]
R2147	ERJ3GEYJ220V	22 1/16W	[M]
R2148	ERJ3GEYJ220V	22 1/16W	[M]
R2149	ERJ3GEYJ220V	22 1/16W	[M]
R2150	ERJ3GEYJ220V	22 1/16W	[M]
R2151	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2152	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2153	ERJ3GEYJ100V	10 1/16W	[M]
R2154	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2155	ERJ3GEYJ104V	100K 1/16W	[M]
R2156	ERJ3GEYJ103V	10K 1/16W	[M]
R2157	ERJ3GEYJ123V	12K 1/16W	[M]
R2160	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2161	ERJ3GEYJ223V	22K 1/16W	[M]
R2162	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2163	ERJ3GEYJ102V	1K 1/16W	[M]
R2164	ERJ3GEYJ333V	33K 1/16W	[M]
R2165	ERJ3GEYJ103V	10K 1/16W	[M]
R2166	ERJ3GEYJ122V	1.2K 1/16W	[M]
R2167	ERJ3GEYJ123V	12K 1/16W	[M]
R2168	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2169	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2170	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2172	ERJ3GEY0R00V	0 1/16W	[M]
R2178	ERJ3GEYJ223V	22K 1/16W	[M]
R2181	ERJ3GEYJ224V	220K 1/16W	[M]
R2184	ERJ3GEYJ224V	220K 1/16W	[M]
R2186	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2187	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2190	ERJ3GEY0R00V	0 1/16W	[M]
R2192	ERJ3GEYJ563V	56K 1/16W	[M]
R2200	ERJ3GEYJ102V	1K 1/16W	[M]
R2201	ERJ3GEYJ473V	47K 1/16W	[M]
R2206	ERJ3GEYJ102V	1K 1/16W	[M]
R2207	ERJ3GEYJ104V	100K 1/16W	[M]
R2208	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2211	ERJ3GEYJ333V	33K 1/16W	[M]
R2212	ERJ3GEYJ103V	10K 1/16W	[M]
R2213	ERJ3GEYJ103V	10K 1/16W	[M]
R2214	ERJ3GEYJ103V	10K 1/16W	[M]
R2215	ERJ3GEYJ273V	27K 1/16W	[M]
R2216	ERJ3GEYJ104V	100K 1/16W	[M]
R2217	ERJ3GEYJ104V	100K 1/16W	[M]
R2227	ERJ3GEYJ104V	100K 1/16W	[M]
R2228	ERJ3GEYJ102V	1K 1/16W	[M]
R2229	ERJ3GEYJ103V	10K 1/16W	[M]
R2230	ERJ3GEYJ103V	10K 1/16W	[M]
R2231	ERJ3GEYJ103V	10K 1/16W	[M]
R2232	ERJ3GEYJ103V	10K 1/16W	[M]
R2233	ERJ3GEYJ103V	10K 1/16W	[M]
R2234	ERJ3GEYJ103V	10K 1/16W	[M]
R2235	ERJ3GEYJ123V	12K 1/16W	[M]
R2244	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2245	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2246	ERJ3GEYJ333V	33K 1/16W	[M]
R2247	ERJ3GEYJ220V	22 1/16W	[M]
R2248	ERJ3GEYJ220V	22 1/16W	[M]
R2249	ERJ3GEYJ220V	22 1/16W	[M]
R2250	ERJ3GEYJ220V	22 1/16W	[M]
R2251	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2252	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2253	ERJ3GEYJ100V	10 1/16W	[M]
R2254	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2255	ERJ3GEYJ104V	100K 1/16W	[M]
R2256	ERJ3GEYJ103V	10K 1/16W	[M]
R2257	ERJ3GEYJ123V	12K 1/16W	[M]
R2260	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2261	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2262	ERJ3GEYJ223V	22K 1/16W	[M]
R2263	ERJ3GEYJ102V	1K 1/16W	[M]
R2264	ERJ3GEYJ333V	33K 1/16W	[M]
R2265	ERJ3GEYJ103V	10K 1/16W	[M]
R2266	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2267	ERJ3GEYJ563V	56K 1/16W	[M]
R2268	ERJ3GEYJ273V	27K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2269	ERJ3GEYJ562V	5.6K 1/16W	[M]
R2271	ERJ3GEY0R00V	0 1/16W	[M]
R2278	ERJ3GEYJ223V	22K 1/16W	[M]
R2290	ERJ3GEY0R00V	0 1/16W	[M]
R2292	ERJ3GEYJ563V	56K 1/16W	[M]
R2300	ERJ3GEYJ103V	10K 1/16W	[M]
R2301	ERJ3GEYJ302V	3K 1/16W	[M]
R2302	ERJ3GEYJ103V	10K 1/16W	[M]
R2303	ERJ3GEYJ393V	39K 1/16W	[M]
R2304	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2305	ERJ3GEYJ102V	1K 1/16W	[M]
R2306	ERJ3GEYJ104V	100K 1/16W	[M]
R2307	ERJ3GEYJ101V	100 1/16W	[M]
R2308	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2309	ERJ3GEYJ563V	56K 1/16W	[M]
R2310	ERJ3GEYJ273V	27K 1/16W	[M]
R2311	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2312	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2326	ERJ3GEYJ563V	56K 1/16W	[M]
R2327	ERJ3GEYJ273V	27K 1/16W	[M]
R2328	ERJ3GEYJ102V	1K 1/16W	[M]
R2330	ERJ3GEYJ123V	12K 1/16W	[M]
R2331	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2400	ERJ3GEYJ103V	10K 1/16W	[M]
R2401	ERJ3GEYJ302V	3K 1/16W	[M]
R2402	ERJ3GEYJ103V	10K 1/16W	[M]
R2403	ERJ3GEYJ393V	39K 1/16W	[M]
R2404	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2405	ERJ3GEYJ102V	1K 1/16W	[M]
R2406	ERJ3GEYJ104V	100K 1/16W	[M]
R2407	ERJ3GEYJ101V	100 1/16W	[M]
R2428	ERJ3GEYJ102V	1K 1/16W	[M]
R2430	ERJ3GEYJ123V	12K 1/16W	[M]
R2500	ERJ3GEYJ103V	10K 1/16W	[M]
R2501	ERJ3GEYJ473V	47K 1/16W	[M]
R2502	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2503	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2504	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2505	ERJ3GEYJ102V	1K 1/16W	[M]
R2506	ERJ3GEYJ333V	33K 1/16W	[M]
R2507	ERJ3GEYJ103V	10K 1/16W	[M]
R2508	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2509	ERJ3GEYJ563V	56K 1/16W	[M]
R2510	ERJ3GEYJ273V	27K 1/16W	[M]
R2511	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2521	ERJ3GEY0R00V	0 1/16W	[M]
R2600	ERJ3GEYJ103V	10K 1/16W	[M]
R2601	ERJ3GEYJ103V	10K 1/16W	[M]
R2602	ERJ3GEYJ103V	10K 1/16W	[M]
R2603	ERJ3GEYJ153V	15K 1/16W	[M]
R2604	ERJ3GEYJ333V	33K 1/16W	[M]
R2605	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2606	ERJ3GEYJ103V	10K 1/16W	[M]
R2607	ERJ3GEYJ273V	27K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2608	ERJ3GEYJ154V	150K 1/16W	[M]
R2609	ERJ3GEYJ563V	56K 1/16W	[M]
R2610	ERJ3GEYJ152V	1.5K 1/16W	[M]
R2611	ERJ3GEYJ563V	56K 1/16W	[M]
R2612	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2613	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2614	ERJ3GEYJ102V	1K 1/16W	[M]
R2615	ERJ3GEYJ104V	100K 1/16W	[M]
R2616	ERJ3GEYJ333V	33K 1/16W	[M]
R2617	ERJ3GEYJ333V	33K 1/16W	[M]
R2618	ERJ3GEYJ102V	1K 1/16W	[M]
R2619	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2620	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2621	ERJ3GEYJ563V	56K 1/16W	[M]
R2622	ERJ3GEYJ273V	27K 1/16W	[M]
R2623	ERJ3GEYJ104V	100K 1/16W	[M]
R2624	ERJ3GEYJ104V	100K 1/16W	[M]
R2625	ERJ3GEYJ223V	22K 1/16W	[M]
R2627	ERJ3GEYJ104V	100K 1/16W	[M]
R2629	ERJ3GEYJ333V	33K 1/16W	[M]
R2630	ERJ3GEYJ104V	100K 1/16W	[M]
R2631	ERJ3GEYJ104V	100K 1/16W	[M]
R2632	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2633	ERJ3GEYJ104V	100K 1/16W	[M]
R2634	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2635	ERJ3GEYJ103V	10K 1/16W	[M]
R2636	ERJ3GEYJ103V	10K 1/16W	[M]
R2637	ERJ3GEYJ102V	1K 1/16W	[M]
R2638	ERJ3GEYJ683V	68K 1/16W	[M]
R2639	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2640	ERJ3GEY0R00V	0 1/16W	[M]
R2641	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2642	ERJ3GEYJ683V	68K 1/16W	[M]
R2643	ERJ3GEYJ104V	100K 1/16W	[M]
R2644	ERJ3GEYJ273V	27K 1/16W	[M]
R2645	ERJ3GEYJ563V	56K 1/16W	[M]
R2646	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2647	ERJ3GEYJ332V	3.3K 1/16W	[M]
R2648	ERJ3GEYJ103V	10K 1/16W	[M]
R2649	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2650	ERJ3GEYJ303V	30K 1/16W	[M]
R2651	ERJ3GEYJ123V	12K 1/16W	[M]
R2652	ERJ3GEYJ104V	100K 1/16W	[M]
R2654	ERJ3GEYJ103V	10K 1/16W	[M]
R2655	ERJ3GEYJ103V	10K 1/16W	[M]
R2656	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2657	ERJ3GEYJ104V	100K 1/16W	[M]
R2658	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2659	ERJ3GEYJ563V	56K 1/16W	[M]
R2660	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2661	ERJ3GEYJ273V	27K 1/16W	[M]
R2662	ERJ3GEYJ104V	100K 1/16W	[M]
R2663	ERJ3GEYJ392V	3.9K 1/16W	[M]
R2664	ERJ3GEYJ392V	3.9K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2703	ERJ3GEYJ273V	27K 1/16W	[M]
R2704	ERJ3GEYJ563V	56K 1/16W	[M]
R2705	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2801	ERJ3GEYJ1R0V	1 1/16W	[M]
R2803	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2804	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2805	ERJ3GEYJ1R0V	1 1/16W	[M]
R2806	ERJ3GEYJ1R0V	1 1/16W	[M]
R2807	ERJ3RED680V	68 3W	[M]
R2808	ERJ3GEYJ1R0V	1 1/16W	[M]
R2809	ERJ3RED680V	68 3W	[M]
R2811	ERJ3GEYJ103V	10K 1/16W	[M]
R2812	ERJ3RBD182V	1.8K 3W	[M]
R2813	ERJ3GEYJ471V	470 1/16W	[M]
R2814	ERJ3GEYJ102V	1K 1/16W	[M]
R2815	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2816	ERJ3GEYJ102V	1K 1/16W	[M]
R2817	ERJ3GEYJ102V	1K 1/16W	[M]
R2818	ERJ3RBD182V	1.8K 3W	[M]
R2819	ERJ3GEYJ471V	470 1/16W	[M]
R2820	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2821	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2822	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2823	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2824	ERJ3GEYJ821V	820 1/16W	[M]
R2825	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2826	ERJ3GEYJ681V	680 1/16W	[M]
R2827	ERJ3GEYJ471V	470 1/16W	[M]
R2828	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2829	ERJ3GEYJ102V	1K 1/16W	[M]
R2830	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2831	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2832	ERJ3GEYJ151V	150 1/16W	[M]
R2833	ERJ3GEYJ102V	1K 1/16W	[M]
R2834	ERJ3GEYJ102V	1K 1/16W	[M]
R2835	ERJ3GEYJ681V	680 1/16W	[M]
R2837	ERJ3GEYJ561V	560 1/16W	[M]
R2838	ERJ3GEYJ272V	2.7K 1/16W	[M]
R2839	ERJ3GEYJ821V	820 1/16W	[M]
R2840	ERJ3GEYJ151V	150 1/16W	[M]
R2841	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2842	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2843	ERJ3GEYJ471V	470 1/16W	[M]
R2845	ERD2FCVJ4R7T	4.7 1/4W	[M]
R2846	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2847	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2848	ERJ3GEYJ8R2V	8.2 1/16W	[M]
R2849	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2850	ERJ3GEYJ393V	39K 1/16W	[M]
R2851	ERJ3GEYJ153V	15K 1/16W	[M]
R2854	ERJ3GEYJ101V	100 1/16W	[M]
R2855	ERJ3GEYJ102V	1K 1/16W	[M]
R2856	ERJ3GEYJ823V	82K 1/16W	[M]
R2861	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2872	ERJ3GEYJ102V	1K 1/16W	[M]
R2873	ERJ3GEYJ273V	27K 1/16W	[M]
R2874	ERJ3GEYJ563V	56K 1/16W	[M]
R2878	ERJ3GEYJ1R0V	1 1/16W	[M]
R2879	ERJ3GEYJ1R0V	1 1/16W	[M]
R2880	ERJ3GEYJ1R0V	1 1/16W	[M]
R2881	ERJ3GEYJ1R0V	1 1/16W	[M]
R2882	ERJ3GEYJ1R0V	1 1/16W	[M]
R2883	ERJ3GEYJ1R0V	1 1/16W	[M]
R2884	ERJ3GEYJ1R0V	1 1/16W	[M]
R2885	ERJ3GEYJ1R0V	1 1/16W	[M]
R2886	D0HB750ZA003	75 3W	[M]
R2887	D0HB750ZA003	75 3W	[M]
R2888	D0HB750ZA003	75 3W	[M]
R2889	D0HB750ZA003	75 3W	[M]
R2890	D0HB750ZA003	75 3W	[M]
R2891	D0HB750ZA003	75 3W	[M]
R2892	ERJ3GEYJ183V	18K 1/16W	[M]
R2893	ERJ3GEYJ153V	15K 1/16W	[M]
R2894	ERJ3GEYJ224V	220K 1/16W	[M]
R2895	ERJ3GEYJ103V	10K 1/16W	[M]
R2897	ERJ3GEYJ102V	1K 1/16W	[M]
R2898	ERJ3GEYJ331V	330 1/16W	[M]
R2905	ERJ3GEYJ1R0V	1 1/16W	[M]
R2916	ERJ3GEY0R00V	0 1/16W	[M]
R2978	ERJ3GEYJ103V	10K 1/16W	[M]
R6005	ERJ3GEYJ681V	680 1/16W	[M]
R6006	ERJ3GEYJ102V	1K 1/16W	[M]
R6007	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6008	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6009	ERJ3GEYJ390V	39 1/16W	[M]
R6010	ERJ3GEYJ561V	560 1/16W	[M]
R6011	ERJ3GEYJ151V	150 1/16W	[M]
R6012	ERJ3GEYJ151V	150 1/16W	[M]
R6013	ERJ3GEYJ223V	22K 1/16W	[M]
R6015	ERJ3GEYJ102V	1K 1/16W	[M]
R6017	ERJ3GEYJ102V	1K 1/16W	[M]
R6019	ERJ3GEYJ680V	68 1/16W	[M]
R6020	ERJ3GEYJ681V	680 1/16W	[M]
R6022	ERJ3GEYJ102V	1K 1/16W	[M]
R6023	ERJ3GEYJ102V	1K 1/16W	[M]
R6024	ERJ3GEYJ122V	1.2K 1/16W	[M]
R6025	ERJ3GEYJ182V	1.8K 1/16W	[M]
R6026	ERJ3GEYJ222V	2.2K 1/16W	[M]
R6027	ERJ3GEYJ102V	1K 1/16W	[M]
R6028	ERJ3GEYJ223V	22K 1/16W	[M]
R6029	ERJ3GEYJ223V	22K 1/16W	[M]
R6030	ERJ3GEYJ223V	22K 1/16W	[M]
R6038	ERJ3GEYJ102V	1K 1/16W	[M]
R6050	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R6051	ERJ3GEYJ2R7V	2.7 1/16W	[M]
R6099	ERJ3GEYJ272V	2.7K 1/16W	[M]
R8011	ERJ2GEJ220X	22 2W	[M]
R8021	ERJ2GEJ103X	10K 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8022	ERJ2GEJ103X	10K 2W	[M]
R8023	ERJ2GEJ473X	47K 2W	[M]
R8041	ERJ2GEJ330X	33 2W	[M]
R8111	ERJ2GEJ223X	22K 2W	[M]
R8112	ERJ2GEJ223X	22K 2W	[M]
R8201	ERJ2GEJ222X	2.2K 2W	[M]
R8231	ERJ2GEJ103X	10K 2W	[M]
R8233	ERJ2GEJ153X	15K 2W	[M]
R8235	ERJ2GEJ822X	8.2K 2W	[M]
R8236	ERJ2GEJ822X	8.2K 2W	[M]
R8241	ERJ2GEJ223X	22K 2W	[M]
R8242	ERJ2GEJ752X	7.5K 2W	[M]
R8243	ERJ2GEJ103X	10K 2W	[M]
R8251	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R8261	ERJ2GEJ823X	82K 2W	[M]
R8262	ERJ2GEJ472X	4.7K 2W	[M]
R8263	ERJ2GEJ823X	82K 2W	[M]
R8264	ERJ2GEJ472X	4.7K 2W	[M]
R8265	ERJ2GE0R00X	0 2W	[M]
R8311	ERJ2RHD242X	2.4K 2W	[M]
R8312	ERJ2RHD102X	1K 2W	[M]
R8313	ERJ2RHD243X	24K 2W	[M]
R8314	ERJ2GE0R00X	0 2W	[M]
R8315	ERJ2GEJ6R8X	6.8 2W	[M]
R8321	ERJ3RBD161V	160 3W	[M]
R8322	ERJ2RKD100X	10 2W	[M]
R8325	ERJ3RBD161V	160 3W	[M]
R8326	ERJ2GEJ100X	10 2W	[M]
R8331	ERJ3RBD161V	160 3W	[M]
R8332	ERJ2RKD100X	10 2W	[M]
R8335	ERJ3RED820V	82 3W	[M]
R8341	ERJ3RED820V	82 3W	[M]
R8401	ERJ2GEJ473X	47K 2W	[M]
R8402	ERJ2GEJ101X	100 2W	[M]
R8404	ERJ2GEJ101X	100 2W	[M]
R8407	ERJ2GEJ101X	100 2W	[M]
R8420	ERJ2GEJ222X	2.2K 2W	[M]
R8421	ERJ2GE0R00X	0 2W	[M]
R8501	ERJ2GE0R00X	0 2W	[M]
R8505	ERJ2GEJ222X	2.2K 2W	[M]
R8506	ERJ2GEJ152X	1.5K 2W	[M]
R8550	ERJ2GEJ752X	7.5K 2W	[M]
R8551	ERJ2GE0R00X	0 2W	[M]
R8552	ERJ2GEJ102X	1K 2W	[M]
R8553	ERJ2GEJ102X	1K 2W	[M]
R8554	ERJ2GEJ680X	68 2W	[M]
R8555	ERJ2GEJ2R2X	2.2 2W	[M]
R8556	ERJ3GEYJ560V	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ2GEJ473X	47K 2W	[M]
R8559	ERJ2GEJ153X	15K 2W	[M]
R8560	ERJ2GEJ102X	1K 2W	[M]
R8561	ERJ2GE0R00X	0 2W	[M]
R8562	ERJ2GEJ102X	1K 2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8563	ERJ2GEJ102X	1K 2W	[M]
R8564	ERJ2GEJ220X	22 2W	[M]
R8565	ERJ2GEJ2R2X	2.2 2W	[M]
R8566	ERJ3GEYJ560V	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ2GEJ473X	47K 2W	[M]
R8569	ERJ2GEJ123X	12K 2W	[M]
R8570	ERJ2GEJ104X	100K 2W	[M]
R8601	ERJ2GEJ102X	1K 2W	[M]
R8606	ERJ2GEJ104X	100K 2W	[M]
R8607	ERJ2GEJ103X	10K 2W	[M]
R8611	ERJ2GEJ101X	100 2W	[M]
R8621	ERJ2GEJ105X	1M 2W	[M]
R8622	ERJ2RHD102X	1K 2W	[M]
K8003	ERJ2GE0R00X	CHIP RESISTOR	[M]
K8008	ERJ2GE0R00X	CHIP RESISTOR	[M]
K8031	ERJ2GE0R00X	CHIP RESISTOR	[M]
K8106	ERJ3GEY0R00V	CHIP RESISTOR	[M]
K8421	ERJ3GEY0R00V	CHIP RESISTOR	[M]
RX8011	D1H88204A024	CHIP RESISTOR	[M]
RX8012	D1H88204A024	CHIP RESISTOR	[M]
RX8013	D1H88204A024	CHIP RESISTOR	[M]
RX8014	D1H88204A024	CHIP RESISTOR	[M]
RX8015	D1H422020001	CHIP RESISTOR	[M]
RX8016	D1H88204A024	CHIP RESISTOR	[M]
RX8017	D1H88204A024	CHIP RESISTOR	[M]
RX8018	D1H88204A024	CHIP RESISTOR	[M]
RX8021	D1H410320002	CHIP RESISTOR	[M]
RX8031	D1H447220001	CHIP RESISTOR	[M]
RX8032	D1H447220001	CHIP RESISTOR	[M]
RX8401	D1H410120001	CHIP RESISTOR	[M]
RX8402	D1H410120001	CHIP RESISTOR	[M]
RX8501	D1H456020001	CHIP RESISTOR	[M]
RX8502	D1H85604A024	CHIP RESISTOR	[M]
RX8503	D1H456020001	CHIP RESISTOR	[M]
RX8504	D1H456020001	CHIP RESISTOR	[M]
RX8611	D1H447220001	CHIP RESISTOR	[M]
		CAPACITORS	
C984	ECA1EAK100XE	10 25V	[M]
C1001	ECEA1CKA101B	100 16V	[M]
C1004	ECJ1VF1H103Z	0.01 50V	[M]
C1005	ECJ1VB1H103K	0.01 50V	[M]
C1006	ECJ1VB1C104K	0.1 16V	[M]
C1007	ECJ1VB1A105K	1 10V	[M]
C1008	ECJ1VB1A105K	1 10V	[M]
C1009	ECJ1VB1A105K	1 10V	[M]
C1010	ECEA1AKA220B	22 10V	[M]
C1012	ECJ1VB1C104K	0.1 16V	[M]
C1013	ECEA0JKA221B	220 6.3V	[M]
C1014	ECEA0JKA221B	220 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1015	ECEA0JKA221B	220 6.3V	[M]
C1016	ECEA0JKA221B	220 6.3V	[M]
C1017	ECEA0JKA221B	220 6.3V	[M]
C1018	ECJ1VB1H103K	0.01 50V	[M]
C1019	ECEA0JKA221B	220 6.3V	[M]
C1020	ECA1HAK2R2XB	2.2 50V	[M]
C1201	ECJ1VB1C104K	0.1 16V	[M]
C2000	ECJ1VB1C104K	0.1 16V	[M]
C2001	ECJ1VB1C104K	0.1 16V	[M]
C2003	ECEA1AKA220B	22 10V	[M]
C2004	ECJ1VB1E103K	0.01 25V	[M]
C2005	ECA1AM102B	1000 10V	[M]
C2006	ECEA1HKA2R2B	2.2 50V	[M]
C2007	ECJ1VB1C104K	0.1 16V	[M]
C2008	ECJ1VB1C104K	0.1 16V	[M]
C2009	ECEA0JKA101B	100 6.3V	[M]
C2010	ECEA1HKA100I	10 50V	[M]
C2011	ECEA1HKA100B	10 50V	[M]
C2012	ECJ1VB1H561K	560P 50V	[M]
C2013	ECJ1VC1H470J	47P 50V	[M]
C2014	ECJ1VB1H331K	330P 50V	[M]
C2015	ECJ1VC1H470J	47P 50V	[M]
C2016	ECJ1VB1H103K	0.01 50V	[M]
C2017	ECJ1VB1H102K	1000P 50V	[M]
C2018	ECEA0JKA470B	47 6.3V	[M]
C2019	ECJ1VB1H331K	330P 50V	[M]
C2020	ECJ1VB1H331K	330P 50V	[M]
C2021	ECJ1VB1H331K	330P 50V	[M]
C2022	ECJ1VB1H223K	0.022 50V	[M]
C2026	ECJ1VB1H103K	0.01 50V	[M]
C2027	ECJ1VB1H103K	0.01 50V	[M]
C2028	ECJ1VB1A105K	1 10V	[M]
C2029	ECJ1VB1A105K	1 10V	[M]
C2030	ECJ1VB1A105K	1 10V	[M]
C2031	ECJ1VB1A105K	1 10V	[M]
C2032	ECJ1VB1C104K	0.1 16V	[M]
C2033	ECJ1VB1H103K	0.01 50V	[M]
C2034	ECJ1VB1C104K	0.1 16V	[M]
C2035	ECJ1VB1H103K	0.01 50V	[M]
C2036	ECEA1HKA220I	22 50V	[M]
C2037	ECJ1VB1H103K	0.01 50V	[M]
C2038	ECEA1AKA221I	220 10V	[M]
C2039	ECJ1VB1H103K	0.01 50V	[M]
C2040	ECA0JM102B	1000 6.3V	[M]
C2042	ECA0JM102B	1000 6.3V	[M]
C2044	ECA0JM102B	1000 6.3V	[M]
C2046	ECA0JM331I	330 6.3V	[M]
C2047	ECA0JM331I	330 6.3V	[M]
C2053	ECJ1VB1E103K	0.01 25V	[M]
C2090	ECJ1VB1E103K	0.01 25V	[M]
C2099	ECEA1HKN4R7B	4.7 50V	[M]
C2101	ECJ1VB1H223K	0.022 50V	[M]
C2102	ECJ1VB1C393K	0.039 16V	[M]
C2106	ECEA1HKA4R7I	4.7 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2107	ECEA1HKA3R3I	3.3 50V	[M]
C2112	ECJ1VC1H471J	470P 50V	[M]
C2121	ECJ1VC1H151K	150P 50V	[M]
C2122	ECJ1VC1H391K	390P 50V	[M]
C2123	ECEA1HKA100I	10 50V	[M]
C2124	ECJ1VC1H101K	100P 50V	[M]
C2125	ECJ1VC1H330J	33P 50V	[M]
C2126	ECJ1VB1E103K	0.01 25V	[M]
C2127	ECJ1VB1A105K	1 10V	[M]
C2128	ECJ1VB1A105K	1 10V	[M]
C2130	ECJ1VB1A154K	0.15 10V	[M]
C2131	ECJ1VB1H332K	3300P 50V	[M]
C2133	ECJ1VB1A105K	1 10V	[M]
C2136	ECJ1VC1H221J	220P 50V	[M]
C2137	ECJ1VB1C104K	0.1 16V	[M]
C2138	ECJ1VC1H221J	220P 50V	[M]
C2139	ECJ1VC1H101K	100P 50V	[M]
C2140	ECJ1VB1H681K	680P 50V	[M]
C2141	ECJ1VC1H101K	100P 50V	[M]
C2149	ECJ1VB1A105K	1 10V	[M]
C2150	ECEA1HKA010I	1 50V	[M]
C2151	ECJ1VC1H101K	100P 50V	[M]
C2152	ECJ1VC1H470J	47P 50V	[M]
C2153	ECA1CM101B	100 16V	[M]
C2154	ECJ1VB1E103K	0.01 25V	[M]
C2155	ECJ1VB1H102K	1000P 50V	[M]
C2156	ECJ1VB1A105K	1 10V	[M]
C2157	ECEA1HKA010B	1 50V	[M]
C2160	ECJ1VB1H471K	470P 50V	[M]
C2161	ECJ1VB1C104K	0.1 16V	[M]
C2162	ECJ1VB1A154K	0.15 10V	[M]
C2163	ECEA1HKA3R3B	3.3 50V	[M]
C2164	ECJ1VB1H272K	2700P 50V	[M]
C2165	ECJ1VB1A124K	0.12 10V	[M]
C2166	ECJ1VB1A124K	0.12 10V	[M]
C2167	ECEA1HKA4R7I	4.7 50V	[M]
C2168	ECEA1HKA3R3I	3.3 50V	[M]
C2169	ECJ1VB1H471K	470P 50V	[M]
C2170	ECEA1HKA4R7I	4.7 50V	[M]
C2171	ECEA1HKA3R3I	3.3 50V	[M]
C2175	ECJ1VB1C333K	0.033 16V	[M]
C2178	ECJ1VC1H221J	220P 50V	[M]
C2201	ECJ1VB1H223K	0.022 50V	[M]
C2202	ECJ1VB1C393K	0.039 16V	[M]
C2206	ECEA1HKA4R7I	4.7 50V	[M]
C2207	ECEA1HKA3R3I	3.3 50V	[M]
C2210	ECJ1VB1H223K	0.022 50V	[M]
C2211	ECJ1VB1C823K	0.082 16V	[M]
C2212	ECJ1VC1H471J	470P 50V	[M]
C2219	ECJ1VB1A124K	0.12 10V	[M]
C2220	ECJ1VB1A124K	0.12 10V	[M]
C2221	ECJ1VC1H151K	150P 50V	[M]
C2222	ECJ1VC1H391K	390P 50V	[M]
C2223	ECEA1HKA100I	10 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2224	ECJ1VC1H101K	100P 50V	[M]
C2225	ECJ1VC1H330J	33P 50V	[M]
C2226	ECJ1VB1E103K	0.01 25V	[M]
C2227	ECJ1VB1A105K	1 10V	[M]
C2228	ECJ1VB1A154K	0.15 10V	[M]
C2229	ECJ1VB1A105K	1 10V	[M]
C2231	ECJ1VB1A105K	1 10V	[M]
C2232	ECJ1VB1H332K	3300P 50V	[M]
C2236	ECJ1VC1H221J	220P 50V	[M]
C2237	ECJ1VB1C104K	0.1 16V	[M]
C2238	ECJ1VC1H221J	220P 50V	[M]
C2239	ECJ1VC1H101K	100P 50V	[M]
C2240	ECJ1VB1H681K	680P 50V	[M]
C2241	ECJ1VC1H101K	100P 50V	[M]
C2249	ECJ1VB1A105K	1 10V	[M]
C2250	ECEA1HKA010I	1 50V	[M]
C2251	ECJ1VC1H101K	100P 50V	[M]
C2252	ECJ1VC1H470J	47P 50V	[M]
C2253	ECA1CM101B	100 16V	[M]
C2254	ECJ1VB1E103K	0.01 25V	[M]
C2255	ECJ1VB1H102K	1000P 50V	[M]
C2256	ECJ1VB1A105K	1 10V	[M]
C2257	ECEA1HKA010B	1 50V	[M]
C2260	ECJ1VB1H471K	470P 50V	[M]
C2261	ECJ1VB1C104K	0.1 16V	[M]
C2262	ECJ1VB1A154K	0.15 10V	[M]
C2263	ECEA1HKA3R3I	3.3 50V	[M]
C2264	ECEA1HKA100I	10 50V	[M]
C2265	ECJ1VB1H272K	2700P 50V	[M]
C2266	ECEA1HKA4R7I	4.7 50V	[M]
C2267	ECEA1HKA4R7I	4.7 50V	[M]
C2270	ECJ1VB1C333K	0.033 16V	[M]
C2271	ECEA1HKA3R3I	3.3 50V	[M]
C2278	ECJ1VC1H221J	220P 50V	[M]
C2300	ECEA1CKA100B	10 16V	[M]
C2301	ECJ1VB1H471K	470P 50V	[M]
C2302	ECJ1VB1A105K	1 10V	[M]
C2303	ECEA1HKA3R3B	3.3 50V	[M]
C2310	ECJ1VB1H223K	0.022 50V	[M]
C2311	ECEA1HKA4R7I	4.7 50V	[M]
C2320	ECJ1VB1A224K	0.22 10V	[M]
C2400	ECEA1HKA100B	10 50V	[M]
C2401	ECJ1VB1A105K	1 10V	[M]
C2402	ECJ1VB1H471K	470P 50V	[M]
C2403	ECJ1VB1A105K	1 10V	[M]
C2404	ECEA1HKA3R3B	3.3 50V	[M]
C2405	ECJ1VB1A105K	1 10V	[M]
C2500	ECEA1CKA100B	10 16V	[M]
C2501	ECEA1HKA4R7I	4.7 50V	[M]
C2502	ECEA1HKA010I	1 50V	[M]
C2503	ECJ1VB1C333K	0.033 16V	[M]
C2504	ECJ1VB1C683K	0.068 16V	[M]
C2505	ECEA1HKA010I	1 50V	[M]
C2506	ECJ1VB1E103K	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2507	ECJ1VB1H471K	470P 50V	[M]
C2508	ECEA1HKA4R7I	4.7 50V	[M]
C2511	ECJ1VB1A105K	1 10V	[M]
C2521	ECJ1VB1A105K	1 10V	[M]
C2522	ECJ1VB1A105K	1 10V	[M]
C2600	ECJ1VB1A105K	1 10V	[M]
C2602	ECEA1HKA100I	10 50V	[M]
C2603	ECEA1HKA100I	10 50V	[M]
C2604	ECJ1VB1H222K	2200P 50V	[M]
C2605	ECJ1VB1A474K	0.47 10V	[M]
C2606	ECJ1VB1A124K	0.12 10V	[M]
C2607	ECJ1VB1A474K	0.47 10V	[M]
C2608	ECJ1VB1C104K	0.1 16V	[M]
C2609	ECJ1VB1H562K	5600P 50V	[M]
C2610	ECEA1HKA100B	10 50V	[M]
C2611	ECEA1HKA4R7I	4.7 50V	[M]
C2612	ECEA1HKA4R7I	4.7 50V	[M]
C2613	ECJ1VB1E103K	0.01 25V	[M]
C2615	ECJ1VB1H562K	5600P 50V	[M]
C2616	ECEA1CKA100I	10 16V	[M]
C2617	ECEA1HKA100I	10 50V	[M]
C2618	ECJ1VB1C683K	0.068 16V	[M]
C2619	ECJ1VB1A474K	0.47 10V	[M]
C2620	ECJ1VB1H104K	0.1 50V	[M]
C2621	ECJ1VC1H330J	33P 50V	[M]
C2626	ECJ1VB1C104K	0.1 16V	[M]
C2627	ECEA1HKA100I	10 50V	[M]
C2628	ECEA1HKA010B	1 50V	[M]
C2630	ECEA1HKA100I	10 50V	[M]
C2631	ECEA1HKA4R7I	4.7 50V	[M]
C2632	ECJ1VC1H101K	100P 50V	[M]
C2633	ECJ1VC1H221J	220P 50V	[M]
C2635	ECJ1VB1H223K	0.022 50V	[M]
C2636	ECEA1HKA4R7I	4.7 50V	[M]
C2637	ECEA1HKA4R7I	4.7 50V	[M]
C2701	ECEA1HKA4R7I	4.7 50V	[M]
C2801	ECJ1VC1H101K	100P 50V	[M]
C2802	ECA1EM221B	220 25V	[M]
C2803	ECJ1VC1H101K	100P 50V	[M]
C2804	ECJ1VC1H101K	100P 50V	[M]
C2805	ECJ1VC1H101K	100P 50V	[M]
C2806	EEUFC0J821B	820P 6.3V	[M]
C2807	ECJ1VC1H101K	100P 50V	[M]
C2808	ECJ1VC1H101K	100P 50V	[M]
C2809	ECEA1EKA330B	33 25V	[M]
C2810	ECJ1VC1H101K	100P 50V	[M]
C2811	ECJ1VB1H103K	0.01 50V	[M]
C2812	ECJ1VC1H101K	100P 50V	[M]
C2813	ECEA1AKA221I	220 10V	[M]
C2814	ECJ1VC1H101K	100P 50V	[M]
C2815	ECJ1VB1H103K	0.01 50V	[M]
C2816	ECJ1VC1H221J	220P 50V	[M]
C2817	ECEA0JKA221B	220 6.3V	[M]
C2818	ECJ1VC1H221J	220P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2819	ECJ1VB1A105K	1 10V	[M]
C2820	ECJ1VB1E103K	0.01 25V	[M]
C2821	ECEA0JKA470B	47 6.3V	[M]
C2822	ECJ1VB1E103K	0.01 25V	[M]
C2823	ECJ1VB1A105K	1 10V	[M]
C2824	ECJ1VB1A105K	1 10V	[M]
C2825	ECA0JM331B	330 6.3V	[M]
C2826	ECQB1H104JF4	0.1 50V	[M]
C2827	ECEA1HKA100I	10 50V	[M]
C2828	ECA1HM101B	100 50V	[M]
C2829	ECA1HM101B	100 50V	[M]
C2830	F2A1E1020065	1000P 25V	[M]
C2831	ECEA1CKA470B	47 16V	[M]
C2832	F2A1E1020065	1000P 25V	[M]
C2833	ECEA1CKA470B	47 16V	[M]
C2834	ECA1HM101B	100 50V	[M]
C2835	ECA1HM101B	100 50V	[M]
C2836	ECA1CM101B	100 16V	[M]
C2837	ECJ1VB1H103K	0.01 50V	[M]
C2838	ECJ1VB1H103K	0.01 50V	[M]
C2839	ECEA1AKA330B	33 10V	[M]
C2840	ECJ1VB1C104K	0.1 16V	[M]
C2841	ECA1EM472B	4700 25V	[M]
C2842	ECJ1VB1A105K	1 10V	[M]
C2844	ECJ1VB1H103K	0.01 50V	[M]
C2845	ECJ1VB1C104K	0.1 16V	[M]
C2846	ECA1EM101B	100 25V	[M]
C2847	ECJ1VB1H103K	0.01 50V	[M]
C2848	ECA1EM101B	100 25V	[M]
C2849	ECEA1HKA470I	47 50V	[M]
C2850	ECA1HM221B	220 50V	[M]
C2851	ECJ1VB1H103K	0.01 50V	[M]
C2853	ECEA1HKN4R7B	4.7 50V	[M]
C2854	ECA1EM101B	100 25V	[M]
C2855	ECA1EM101B	100 25V	[M]
C2856	ECA1HM101B	100 50V	[M]
C2857	ECJ1VB1A225K	2.2 10V	[M]
C2858	ECJ1VB1A225K	2.2 10V	[M]
C2859	ECJ1VC1H101K	100P 50V	[M]
C6000	ECJ1VB1H473K	0.047 50V	[M]
C6001	ECJ1VB1H473K	0.047 50V	[M]
C6002	ECJ1VB1H102K	1000P 50V	[M]
C6003	ECEA1HKA220B	22 50V	[M]
C6005	ECEA1HKA220B	22 50V	[M]
C6006	ECJ1VB1H102K	1000P 50V	[M]
C6007	ECEA1HKA100B	10 50V	[M]
C6008	ECEA0JKS470B	47 6.3V	[M]
C6009	ECJ1VB1H103K	0.01 50V	[M]
C6011	ECEA0JKS101B	100 6.3V	[M]
C6012	ECJ1VB1H103K	0.01 50V	[M]
C6014	ECJ1VC1H101K	100P 50V	[M]
C6015	ECJ1VC1H101K	100P 50V	[M]
C6016	ECJ1VC1H101K	100P 50V	[M]
C6017	ECJ1VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C6021	ECJ1VC1H101K	100P 50V	[M]
C6022	ECJ1VC1H101K	100P 50V	[M]
C8001	F2G0J101A066	100P 6.3V	[M]
C8002	F2G0G331A012	330P 4V	[M]
C8003	ECJ0EB1E222K	2200P 25V	[M]
C8004	ECJ0EF1C104Z	0.1 16V	[M]
C8005	ECJ0EF1C104Z	0.1 16V	[M]
C8006	ECJ0EF1C104Z	0.1 16V	[M]
C8007	ECJ0EF1C104Z	0.1 16V	[M]
C8008	ECJ0EF1C104Z	0.1 16V	[M]
C8009	ECJ0EF1C104Z	0.1 16V	[M]
C8010	ECJ0EF1C104Z	0.1 16V	[M]
C8011	ECJ1VB0J105K	1 6.3V	[M]
C8012	ECJ0EF1C104Z	0.1 16V	[M]
C8013	ECJ0EF1C104Z	0.1 16V	[M]
C8014	ECJ0EF1C104Z	0.1 16V	[M]
C8015	ECJ1VB0J105K	1 6.3V	[M]
C8016	ECJ1VB0J105K	1 6.3V	[M]
C8017	ECJ0EF1C104Z	0.1 16V	[M]
C8018	ECJ0EF1C104Z	0.1 16V	[M]
C8019	ECJ1VB0J105K	1 6.3V	[M]
C8020	ECJ0EF1C104Z	0.1 16V	[M]
C8021	ECJ0EF1C104Z	0.1 16V	[M]
C8022	ECJ0EF1C104Z	0.1 16V	[M]
C8023	ECJ1VB0J105K	1 6.3V	[M]
C8024	ECJ1VB0J105K	1 6.3V	[M]
C8025	ECJ0EF1C104Z	0.1 16V	[M]
C8026	ECJ0EB1E222K	2200P 25V	[M]
C8027	ECJ0EF1C104Z	0.1 16V	[M]
C8028	ECJ1VB0J105K	1 6.3V	[M]
C8031	ECJ0EF1C104Z	0.1 16V	[M]
C8051	ECJ1VB0J105K	1 6.3V	[M]
C8052	ECJ0EF1C104Z	0.1 16V	[M]
C8053	ECJ0EC1H221J	220P 50V	[M]
C8054	ECJ1VB0J105K	1 6.3V	[M]
C8055	ECJ1VB0J105K	1 6.3V	[M]
C8056	ECJ0EF1C104Z	0.1 16V	[M]
C8057	ECJ0EB1E222K	2200P 25V	[M]
C8111	ECJ0EB1A104K	0.1 10V	[M]
C8112	ECJ1VB0J105K	1 6.3V	[M]
C8113	ECJ0EB1E471K	470P 25V	[M]
C8201	F2H0J101A003	100P 6.3V	[M]
C8202	F2G0J101A066	100P 6.3V	[M]
C8203	ECJ0EF1C104Z	0.1 16V	[M]
C8204	ECJ0EF1C104Z	0.1 16V	[M]
C8205	ECJ0EF1C104Z	0.1 16V	[M]
C8206	ECJ1VB0J105K	1 6.3V	[M]
C8207	ECJ1VF1C104Z	0.1 16V	[M]
C8208	ECJ0EF1C104Z	0.1 16V	[M]
C8211	ECJ0EB1A333K	0.033 10V	[M]
C8212	ECJ0EF1C104Z	0.1 16V	[M]
C8213	ECJ0EF1C104Z	0.1 16V	[M]
C8214	ECJ0EF1C104Z	0.1 16V	[M]
C8215	ECJ0EB1E562K	5600P 25V	[M]

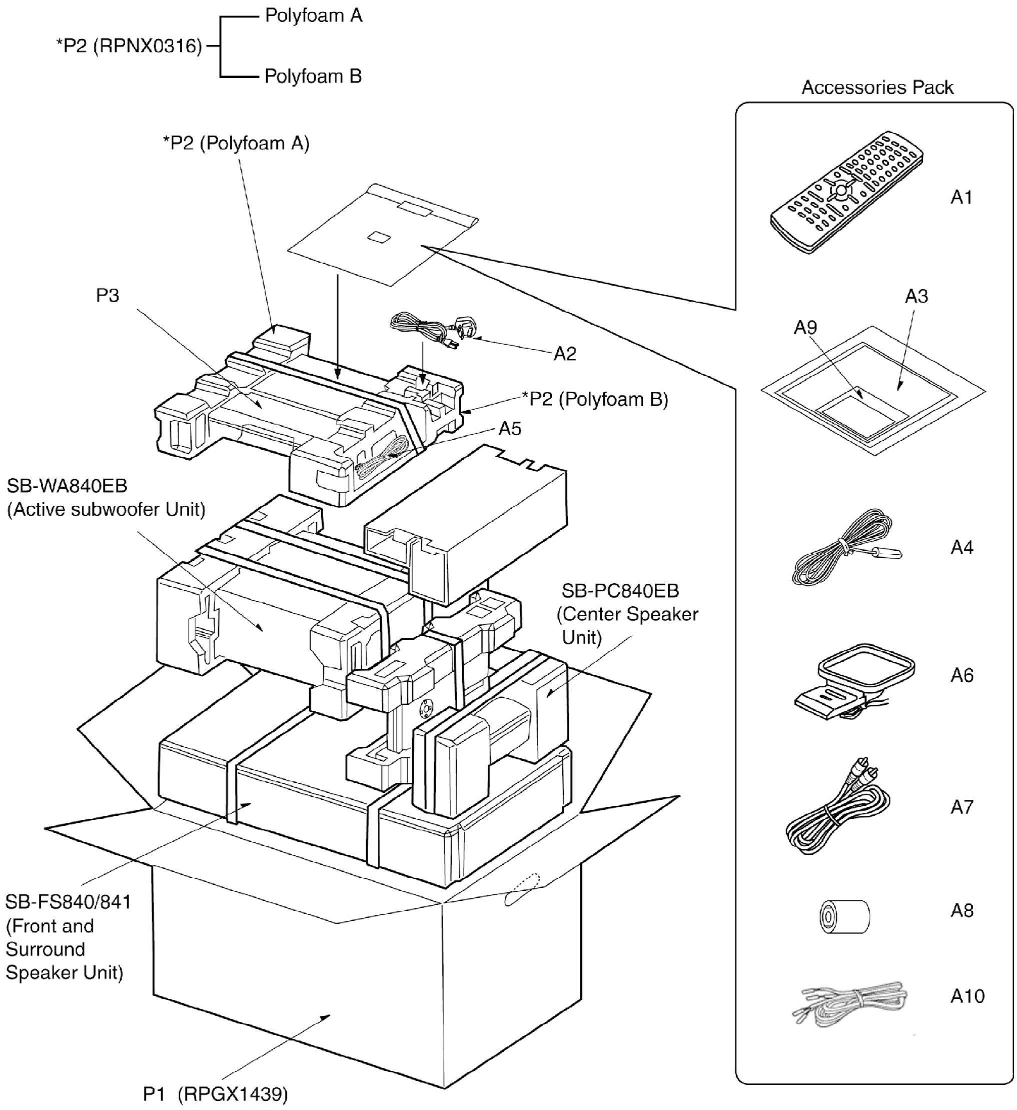
Ref. No.	Part No.	Part Name & Description	Remarks
C8216	ECJ0EB1C183K	0.018 16V	[M]
C8217	ECJ1VB0J105K	1 6.3V	[M]
C8218	ECJ1VB0J105K	1 6.3V	[M]
C8221	ECJ0EB1A104K	0.1 10V	[M]
C8222	ECJ0EB1A104K	0.1 10V	[M]
C8223	ECJ0EB1A104K	0.1 10V	[M]
C8224	ECJ0EB1A104K	0.1 10V	[M]
C8225	ECJ0EF1C104Z	0.1 16V	[M]
C8226	ECJ0EF1C104Z	0.1 16V	[M]
C8227	ECJ0EF1C104Z	0.1 16V	[M]
C8228	ECJ1VB0J105K	1 6.3V	[M]
C8229	ECJ1VB0J105K	1 6.3V	[M]
C8232	ECJ1VF1C104Z	0.1 16V	[M]
C8233	ECJ0EB1E472K	4700P 25V	[M]
C8234	ECJ0EF1C104Z	0.1 16V	[M]
C8235	ECJ0EB1H102K	1000P 50V	[M]
C8236	ECJ0EB1H102K	1000P 50V	[M]
C8237	ECJ0EB1H102K	1000P 50V	[M]
C8238	ECJ0EB1H821K	820P 50V	[M]
C8241	ECJ0EB1A104K	0.1 10V	[M]
C8242	ECJ0EB1A104K	0.1 10V	[M]
C8251	F2G0J221A065	220P 6.3V	[M]
C8252	F2G1C470A076	47P 16V	[M]
C8253	F2H1C220A003	22P 16V	[M]
C8254	ECJ0EF1C104Z	0.1 16V	[M]
C8255	ECJ0EF1C104Z	0.1 16V	[M]
C8256	ECJ0EF1C104Z	0.1 16V	[M]
C8257	ECJ0EF1C104Z	0.1 16V	[M]
C8261	ECJ0EF1C104Z	0.1 16V	[M]
C8262	ECJ0EF1C104Z	0.1 16V	[M]
C8301	F2H0J2210006	220P 6.3V	[M]
C8302	F2H0J330A003	33P 6.3V	[M]
C8303	ECJ0EF1C104Z	0.1 16V	[M]
C8304	ECJ1VB0J105K	1 6.3V	[M]
C8307	ECJ0EF1C104Z	0.1 16V	[M]
C8308	ECJ0EC1H150J	15P 50V	[M]
C8311	ECJ0EF1C104Z	0.1 16V	[M]
C8312	ECJ1VB0J105K	1 6.3V	[M]
C8421	F2G0J101A083	100P 6.3V	[M]
C8422	ECJ0EF1C104Z	0.1 16V	[M]
C8423	F2G0J330A083	33P 6.3V	[M]
C8424	ECJ0EF1C104Z	0.1 16V	[M]
C8426	ECJ0EF1C104Z	0.1 16V	[M]
C8427	ECJ0EF1C104Z	0.1 16V	[M]
C8428	ECJ0EF1C104Z	0.1 16V	[M]
C8501	ECJ3YB1A106M	10 10V	[M]
C8502	ECJ0EF1C104Z	0.1 16V	[M]
C8503	ECJ0EF1C104Z	0.1 16V	[M]
C8504	ECJ0EF1C104Z	0.1 16V	[M]
C8505	ECJ0EC1H221J	220P 50V	[M]
C8506	ECJ0EC1H101J	100P 50V	[M]
C8550	F2H0J330A003	33P 6.3V	[M]
C8551	ECJ0EF1C104Z	0.1 16V	[M]
C8552	F2G1C100A072	10P 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8553	F2H0J470A003	47P 6.3V	[M]
C8554	ECJ1VB0J105K	1 6.3V	[M]
C8561	ECJ0EF1C104Z	0.1 16V	[M]
C8562	F2G1C100A072	10P 16V	[M]
C8563	F2H0J470A003	47P 6.3V	[M]
C8564	ECJ1VB0J105K	1 6.3V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8606	ECJ0EF1C104Z	0.1 16V	[M]
C8607	ECJ0EB0J224K	0.22 6.3V	[M]
C8611	ECJ0EF1C104Z	0.1 16V	[M]
C8621	ECJ0EC1H120J	12P 50V	[M]
C8622	ECJ0EC1H120J	12P 50V	[M]
C8651	ECJ0EF1C104Z	0.1 16V	[M]
C8652	ECJ0EF1C104Z	0.1 16V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]
C8695	ECJ0EF1C104Z	0.1 16V	[M]

28.3. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1439	PACKING CASE	[M]
P2	RPNX0316	POLYFOAM	[M]
P3	RPFX0058	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	EUR7722XC0	REMOTE CONTROL	[M]
A1-1	UR76EC3103A	R/C BATTERY COVER	[M]
A2	RJA0053-3X	AC CORD	[M] ⚠
A3	RQT7978-B	O/I BOOK [EN]	[M]
A4	RSA0007-L	FM INDOOR ANTENNA	[M]
A5	K1HA25HA0001	SYSTEM CABLE	[M]
A6	N1DAAAA00001	AM LOOP ANTENNA	[M]
A7	K2KA2BA00001	VIDEO CABLE	[M]
A8	K1YZ02000013	ANTENNA PLUG ADAPTOR	[M]
A9	RQCA1029	SPEAKER LABEL	[M]
A10	REE1203A-1J	SPEAKER WIRE	[M]

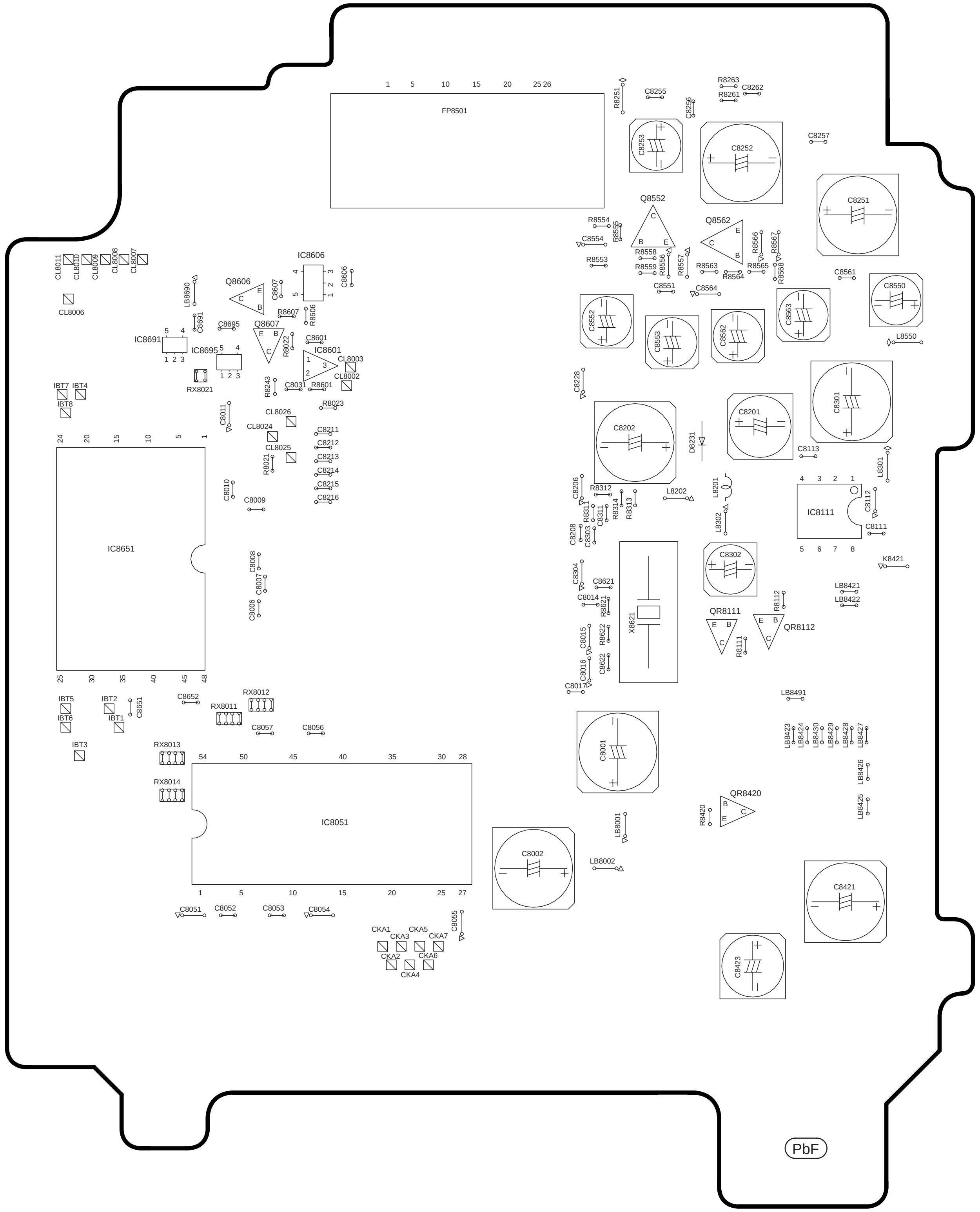
28.4. Packaging


*P2 (RPNX0316)
Polyfoam A
Polyfoam B
Accessories Pack
*P2 (Polyfoam A)
A1
P3
A3
A9
A2
*P2 (Polyfoam B)
A5
SB-WA840EB
(Active subwoofer Unit)
A4
SB-PC840EB
(Center Speaker
Unit)
A6
A7
SB-FS840/841
(Front and
Surround
Speaker Unit)
A8
A10
P1 (RPGX1439)

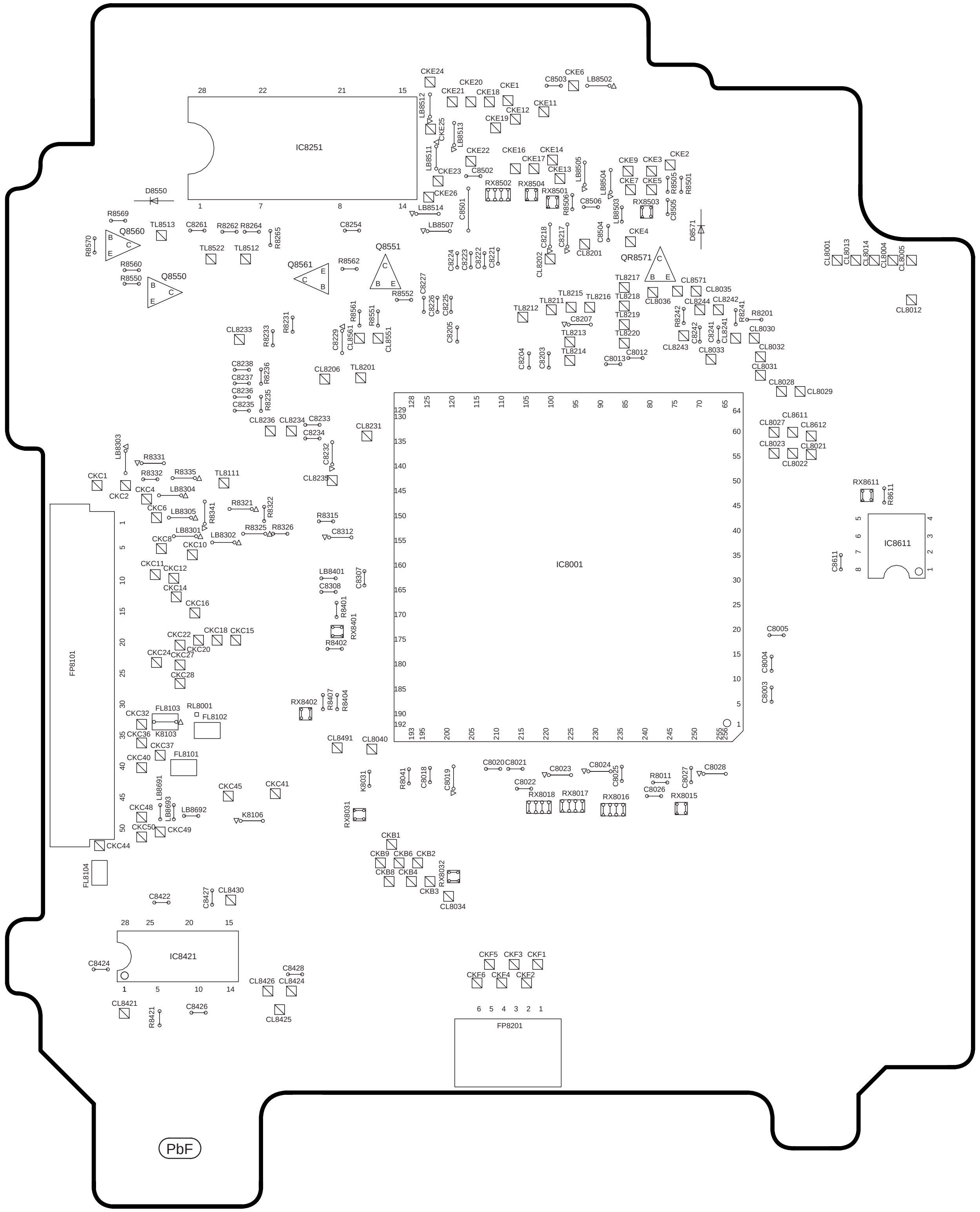
29. Schematic Diagram for printing with A4

Ref No.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.1	3.0	0	3.1	3.3	3.4	3.0	3.1	0	0	3.1	3.4	2.9	3.1	3.0	0	3.0	3.0	3.4	0
Ref No.	IC8001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	3.4	-	-	1.5	0.8	1.2	1.0	3.4	0	0.5	1.0	-	-	3.4	0	-	-	2.4	-	-
Ref No.	IC8001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	-	-	-	1.2	-	-	-	3.4	0	-	-	2.5	0	0	0	-	-	-	-	-
Ref No.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	-	3.4	0	0	0.1	1.0	1.0	3.0	2.8	3.1	0.1	0.1	3.2	0	1.7	.0	1.7	0.1	3.4	0
Ref No.	IC8001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	3.4	0.1	3.4	3.4	0.1	0.1	0	0.1	1.2	0	0	0	0	0.1	0.1	0	0	3.4	0.8	0.1
Ref No.	IC8001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
CD PLAY	2.4	2.1	1.9	0.3	0	1.9	3.4	2.1	2.1	1.9	1.8	1.1	1.1	1.7	1.7	1.7	1.7	3.3	2.0	1.7
Ref No.	IC8001																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
CD PLAY	1.5	0	0	0.1	0	0	2.3	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.4	2.4	0	2.4	0	0
Ref No.	IC8001																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
CD PLAY	0.5	0	0	0	0	1.1	2.2	1.7	2.6	2.6	2.6	2.6	2.6	2.6	2.4	2.4	0	2.4	3.4	0
Ref No.	IC8001																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
CD PLAY	3.4	0	0	0	0	3.4	3.4	1.7	0	1.7	0.9	1.2	0	0	0	0.9	1.7	3.4	0	3.4
Ref No.	IC8001																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
CD PLAY	0	3.4	0	0	-	-	-	-	-	3.4	0	1.0	1.7	0	1.5	3.4	1.3	0.5	1.5	1.4
Ref No.	IC8001																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
CD PLAY	0	3.4	3.4	1.2	0	1.7	1.4	1.4	3.4	3.4	1.0	1.8	0	-	-	3.4	2	0	1.2	1.6
Ref No.	IC8001																			
MODE	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
CD PLAY	0.2	0	1.7	0.2	3.4	1.7	0.1	0.9	0	0.1	3.4	1.6	-	2.2	0	1.2	0.1	0.1	3.4	3.2
Ref No.	IC8001																			
MODE	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256				
CD PLAY	1.7	0	1.7	3.3	3.4	3.4	0	3.3	2.6	0	3.6	2.8	0	2.9	3.4	2.9				
Ref No.	IC8051																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	3.4	3.2	3.4	3.1	3.2	0.1	3.2	3.4	3.1	3.0	-	0.1	2.9	3.4	2.7	3.3	3.3	3.3	3.0	2.2
Ref No.	IC8051																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	1.6	0.1	-	-	-	-	3.4	0	-	-	-	-	-	-	-	-	3.4	1.7	2.7	-
Ref No.	IC8051																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54						
CD PLAY	0.1	3.0	3.4	3.2	3.1	0	3.0	3.1	3.4	2.8	2.8	0	2.9	0						
Ref No.	IC8111																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	3.4	0	0.1	-	-	0	0	4.9												
Ref No.	IC8251																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	1.7	1.7	1.7	1.9	1.9	1.8	0	4.9	3.4	0.1	2.6	2.4	2.5	2.5	4.5	4.6	5.1	4.0	0.1	0.6
Ref No.	IC8251																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	9.6	9.4	1.8	1.7	1.7	1.7	3.4	3.2												
Ref No.	IC8421																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	3.4	3.0	3.4	1.7	0.9	1.7	1.7	4.8	0	0.9	0.1	0.1	0	2.4	2.4	4.9	0	2.4	2.4
Ref No.	IC8421																			
MODE	21	22	23	24	25	26	27	28												
CD PLAY	2.4	4.9	-	0	2.5	2.4	2.4	4.8												
Ref No.	IC8601																			
MODE	1	2	3																	
CD PLAY	0	3.2	3.4																	
Ref No.	IC8606																			
MODE	1	2	3	4	5															
CD PLAY	0.7	1.2	0	0	0															
Ref No.	IC8611																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.1	0.1	0.1	0.1	3.4	3.4	0.1	3.4												
Ref No.	IC8651																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-	-	-	-	-	-	-	-	-	-	-	2.9	3.4	3.4	1.0	-	-	-	-	-
Ref No.	IC8651																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLA	-	-	-	-	-	2.4	0	1.9	1.0	1.0	1.0	1.0	1.4	1.2	1.5	1.5	3.4	1.4	1.2	1.3
Ref No.	IC8651																			
MODE	41	42	43	44	45	46	47	48												
CD PLAY	1.4	1.4	1.7	1.7	1.9	0	3.4	-												
Ref No.	IC8691										IC8695									
MODE	1	2	3	4	5						1	2	3	4	5					
CD PLAY	3.0	3.0	0.1	4.3	4.9						0	0	0	0	4.9					
Ref No.	Q8550				Q8551				Q8552				Q8560				Q8561			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	4.9	4.8	4.2		0.1	4.8	0.1		4.8	0	4.8		0.1	0.1	0.7		1.5	3.5	2.1	
Ref No.	Q8562				Q8606				Q8607											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	4.2	2.3	3.6		0	0.1	0.7		0	3.2	0.1									
Ref No.	QR8111				QR8112				QR8420				QR8571							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	0.1	0.1	1.2		0.1	4.5	0.1		0	4.0	0.1		3.4	3.3	0.1					

A DVD MODULE P.C.B. (REP3867D) (SIDE:A)

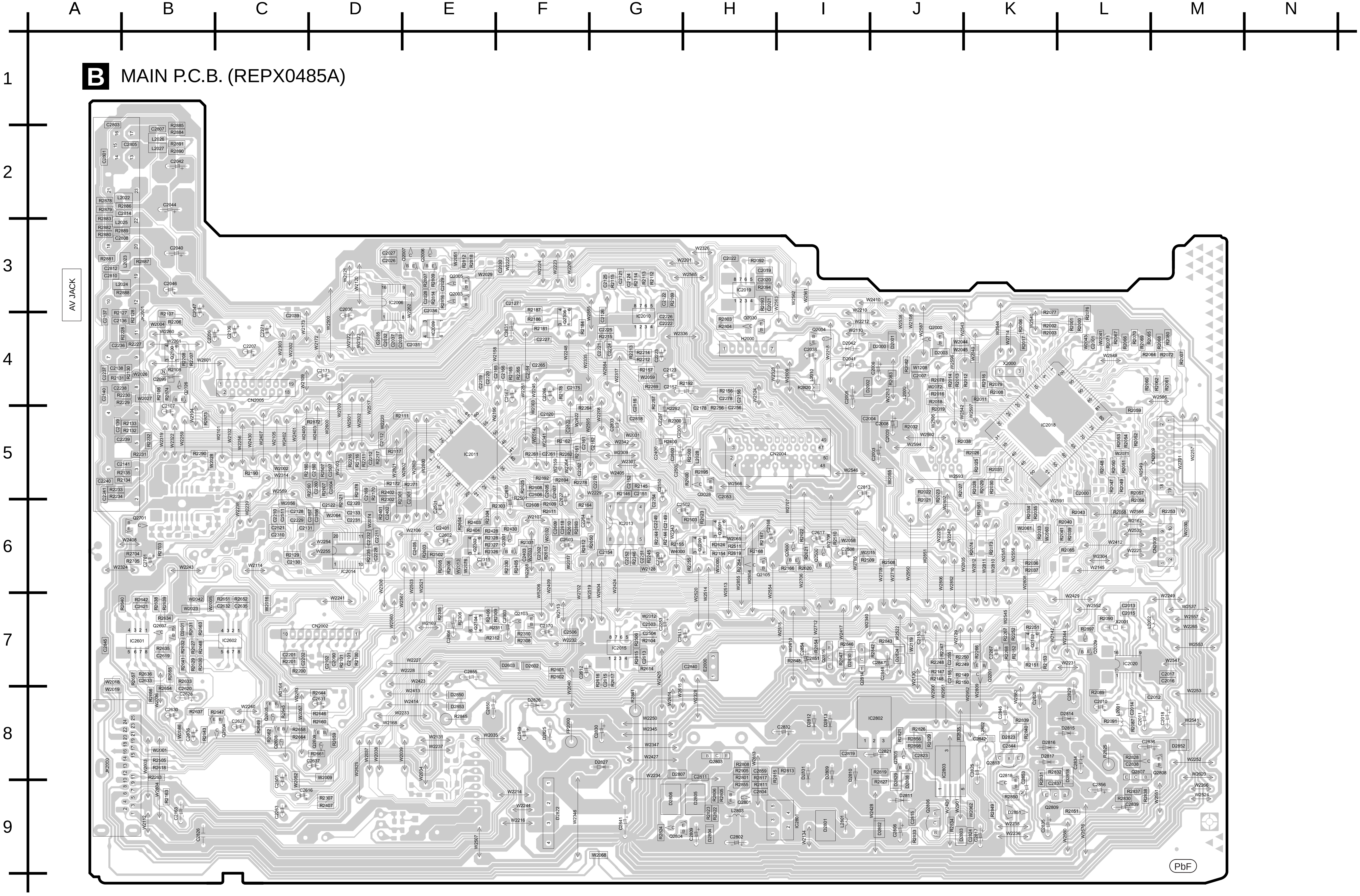

A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
FP8501
IC8606
IC8691
IC8695
IC8601
Q8606
Q8607
Q8552
Q8562
QR8111
QR8112
QR8420
IC8651
IC8051
IC8111
X8621
C8251
C8252
C8253
C8201
C8202
C8301
C8302
C8550
C8552
C8553
C8562
C8563
C8001
C8002
C8421
C8423
RX8011
RX8012
RX8013
RX8014
RX8021
IBT1
IBT2
IBT3
IBT4
IBT5
IBT6
IBT7
IBT8
CKA1
CKA2
CKA3
CKA4
CKA5
CKA6
CKA7
L8201
L8202
L8301
L8302
L8550
LB8001
LB8002
LB8491
PbF

A DVD MODULE P.C.B. (REP3867D) (SIDE:B)


IC8251
IC8001
IC8421
IC8611
FP8101
FP8201
FL8101
FL8102
FL8103
FL8104
Q8550
Q8551
Q8560
Q8561
QR8571
D8550
D8571
RX8501
RX8502
RX8503
RX8504
RX8015
RX8016
RX8017
RX8018
RX8031
RX8032
RX8402
RX8611
CKE1
CKE2
CKE3
CKE4
CKC1
CKC2
CKC4
CKC44
CKB1
CKB2
CKB3
CKF1
CKF2
CKF3
CKF4
CKF5
CKF6
RL8001
K8103
K8106
PbF

SA-HT840EB DVD MODULE P.C.B.

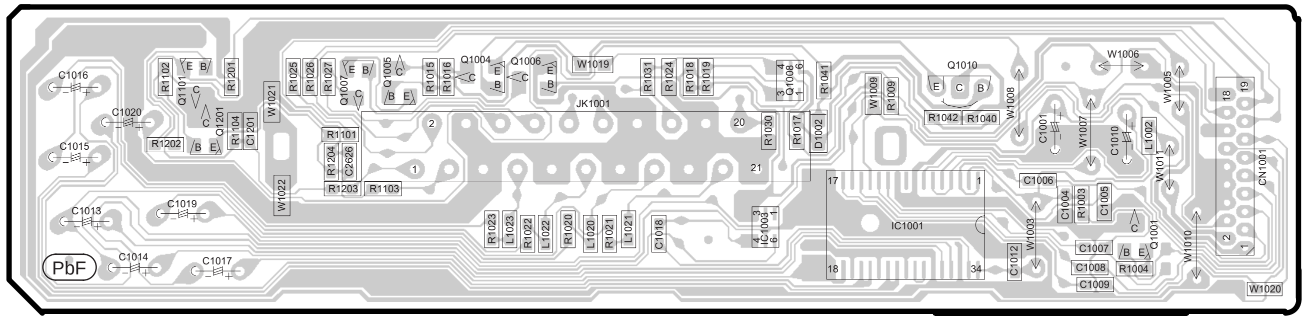
B MAIN P.C.B. (REPX0485A)


A
B
C
D
E
F
G
H
I
J
K
L
M
N
1
2
3
4
5
6
7
8
9
AV JACK
IC2011
IC2018
CN2004
CN2005
CN2002
IC2802
IC2803
IC2801
IC2020
IC2601
IC2602
IC2013
IC2015
IC2014
IC2010
IC2019
IC2006
D2801
PbF

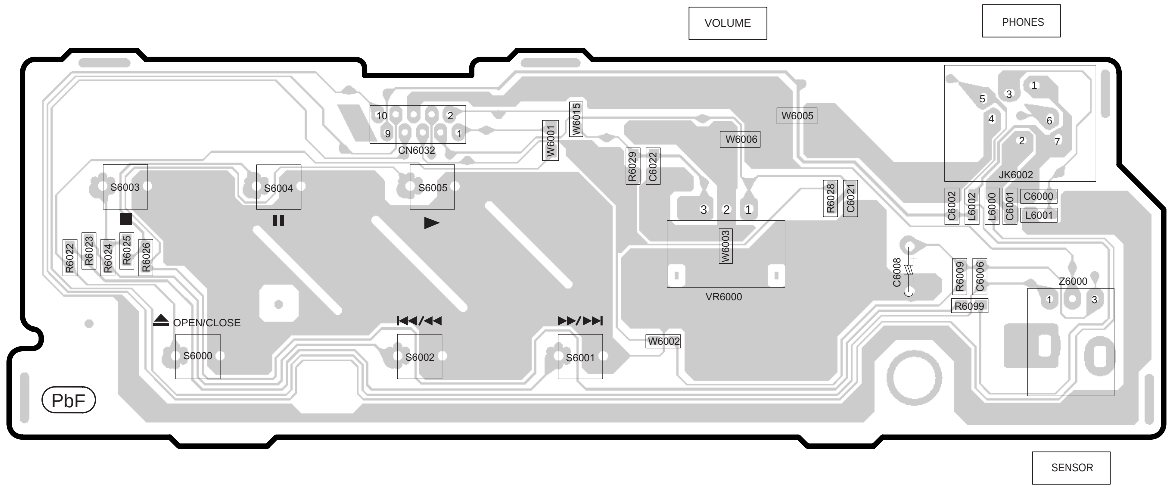
SA-HT840EB MAIN P.C.B.

A B C D E F G H I J K L M N
1 2 3 4 5 6 7 8 9

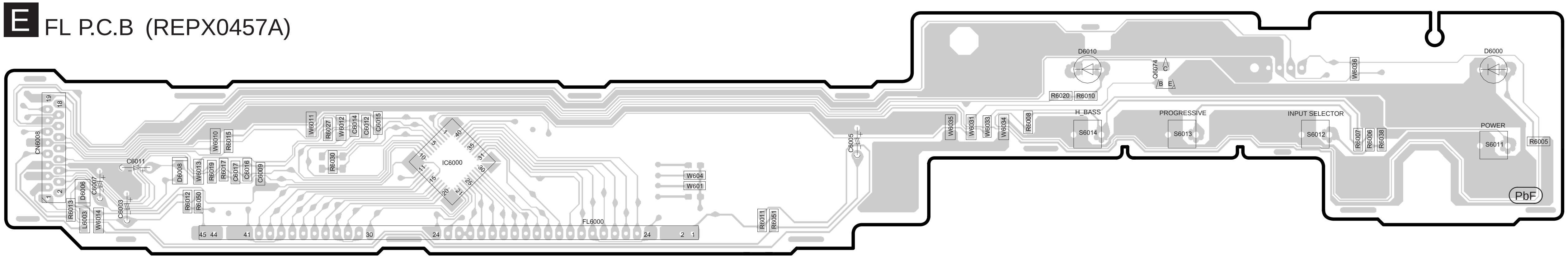
C SCART P.C.B (REPX0485A)


PbF
JK1001
IC1001
CN1001
C1016
C1020
C1015
C1013
C1019
C1014
C1017
Q1101
Q1201
Q1004
Q1006
Q1007
Q1005
Q1008
Q1010
Q1001
W1019
W1006
W1021
W1022
W1020
R1101
R1203
R1103
R1202
R1042
R1040
D1002
C1006
C1007
C1008
C1009
R1004

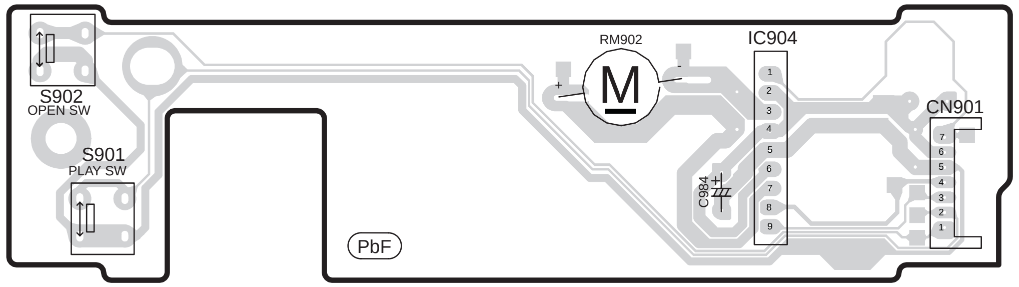
D VOLUME P.C.B (REPX0457A)


VOLUME
PHONES
SENSOR
PbF
CN6032
JK6002
VR6000
Z6000
S6003
S6004
S6005
S6000
S6002
S6001
OPEN/CLOSE
W6005
W6006
W6015
W6001
W6002
W6003
C6000
L6001
R6099

E FL P.C.B (REPX0457A)


PbF
CN6008
IC6000
FL6000
D6010
D6000
H_BASS
PROGRESSIVE
INPUT SELECTOR
POWER
S6014
S6013
S6012
S6011
C6011
W604
W601
R6020
R6010
R6005

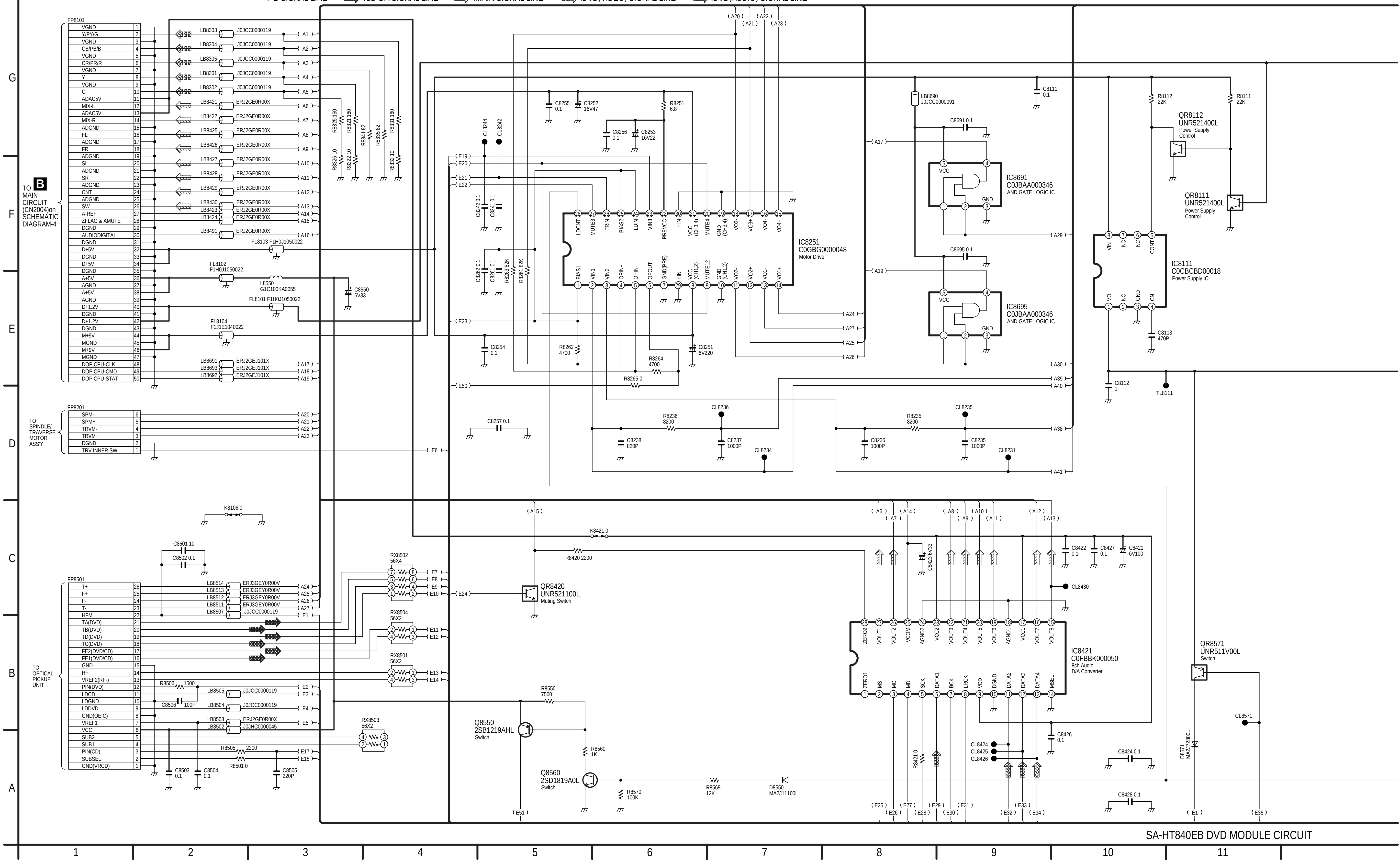
F TRAY LOADING P.C.B (REP3288A)


S902
OPEN SW
S901
PLAY SW
RM902
M
IC904
CN901
C984
PbF

SCHEMATIC DIAGRAM-1

A DVD MODULE CIRCUIT

—— :+B SIGNAL LINE ▩ :CD-DA SIGNAL LINE ⇨ :MAIN SIGNAL LINE ▩ :DVD(VIDEO) SIGNAL LINE ▩ :DVD(AUDIO) SIGNAL LINE



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
FP8101
VGND
Y/PY/G
VGND
CB/PB/B
VGND
CR/PR/R
VGND
Y
VGND
C
ADAC5V
MIX-L
ADAC5V
MIX-R
ADGND
FL
ADGND
FR
ADGND
SL
ADGND
SR
ADGND
CNT
ADGND
SW
A-REF
ZFLAG & AMUTE
DGND
AUDIODIGITAL
DGND
D+5V
DGND
D+5V
DGND
A+5V
AGND
A+5V
AGND
D+1.2V
DGND
D+1.2V
DGND
M+9V
MGND
M+9V
MGND
DOP CPU-CLK
DOP CPU-CMD
DOP CPU-STAT
TO B MAIN CIRCUIT (CN2004)on SCHEMATIC DIAGRAM-4
LB8303 J0JCC0000119
LB8304 J0JCC0000119
LB8305 J0JCC0000119
LB8301 J0JCC0000119
LB8302 J0JCC0000119
LB8421 ERJ2GE0R00X
LB8422 ERJ2GE0R00X
LB8425 ERJ2GE0R00X
LB8426 ERJ2GE0R00X
LB8427 ERJ2GE0R00X
LB8428 ERJ2GE0R00X
LB8429 ERJ2GE0R00X
LB8430 ERJ2GE0R00X
LB8423 ERJ2GE0R00X
LB8424 ERJ2GE0R00X
LB8491 ERJ2GE0R00X
FL8103 F1H0J1050022
FL8102 F1H0J1050022
L8550 G1C100KA0055
C8550 6V33
FL8101 F1H0J1050022
FL8104 F1J1E1040022
LB8691 ERJ2GEJ101X
LB8693 ERJ2GEJ101X
LB8692 ERJ2GEJ101X
R8325 160
R8321 160
R8341 82
R8335 82
R8331 160
R8326 10
R8322 10
R8332 10
FP8201
SPM-
SPM+
TRVM-
TRVM+
DGND
TRV INNER SW
TO SPINDLE/ TRAVERSE MOTOR ASS'Y
CL8244
CL8242
C8242 0.1
C8241 0.1
C8262 0.1
C8261 0.1
R8263 82K
R8261 82K
C8254 0.1
C8255 0.1
C8252 16V47
C8256 0.1
C8253 16V22
R8251 6.8
IC8251
C0GBG0000048
Motor Drive
LDCNT
MUTE3
TRIN
BIAS2
LDIN
VIN3
PREVCC
FIN
VCC (CH3,4)
MUTE4
GND (CH3,4)
VO3-
VO3+
VO4-
VO4+
BIAS1
VIN1
VIN2
OPIN+
OPIN-
OPOUT
GND(PRE)
FIN
VCC (CH1,2)
MUTE12
GND (CH1,2)
VO2-
VO2+
VO1-
VO1+
R8262 4700
R8264 4700
C8251 6V220
R8265 0
C8257 0.1
R8236 8200
CL8236
C8238 820P
C8237 1000P
CL8234
R8235 8200
CL8235
C8236 1000P
C8235 1000P
CL8231
LB8690 J0JCC0000091
C8691 0.1
C8111 0.1
IC8691
C0JBAA000346
AND GATE LOGIC IC
VCC
GND
C8695 0.1
IC8695
C0JBAA000346
AND GATE LOGIC IC
R8112 22K
R8111 22K
QR8112
UNR521400L
Power Supply Control
QR8111
UNR521400L
Power Supply Control
IC8111
C0CBCBD00018
Power Supply IC
VIN
NC
NC
CONT
VO
NC
GND
CN
C8113 470P
C8112 1
TL8111
K8106 0
K8421 0
C8501 10
C8502 0.1
FP8501
T+
F+
F-
T-
HFM
TA(DVD)
TB(DVD)
TD(DVD)
TC(DVD)
FE2(DVD/CD)
FE1(DVD/CD)
GND
RF
VREF2(RF-)
PIN(DVD)
LDCD
LDGND
LDDVD
GND(OEIC)
VREF1
VCC
SUB2
SUB1
PIN(CD)
SUBSEL
GND(VRCD)
TO OPTICAL PICKUP UNIT
LB8514 ERJ3GEY0R00V
LB8513 ERJ3GEY0R00V
LB8512 ERJ3GEY0R00V
LB8511 ERJ3GEY0R00V
LB8507 J0JCC0000119
R8506 1500
C8506 100P
LB8505 J0JCC0000119
LB8504 J0JCC0000119
LB8503 ERJ2GE0R00X
LB8502 J0JHC0000045
R8505 2200
R8501 0
C8503 0.1
C8504 0.1
C8505 220P
RX8502 56X4
RX8504 56X2
RX8501 56X2
RX8503 56X2
R8420 2200
QR8420
UNR521100L
Muting Switch
R8550 7500
Q8550
2SB1219AHL
Switch
R8560 1K
Q8560
2SD1819A0L
Switch
R8570 100K
R8569 12K
D8550 MA2J11100L
C8423 6V33
C8422 0.1
C8427 0.1
C8421 6V100
CL8430
IC8421
C0FBBK000050
8ch Audio D/A Converter
ZERO2
VOUT1
VOUT2
VCOM
AGND2
VCC2
VOUT3
VOUT4
VOUT5
VOUT6
AGND1
VCC1
VOUT7
VOUT8
ZERO1
MS
MC
MD
SCK
DATA1
BCK
LRCK
VDD
DGND
DATA2
DATA3
DATA4
MSEL
C8426 0.1
CL8424
CL8425
CL8426
R8421 0
C8424 0.1
C8428 0.1
QR8571
UNR511V00L
Switch
D8571 MA2J72800L
CL8571
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
A22
A23
A24
A25
A26
A27
A29
A30
A38
A39
A40
A41
E1
E2
E3
E4
E5
E6
E7
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E11
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E34
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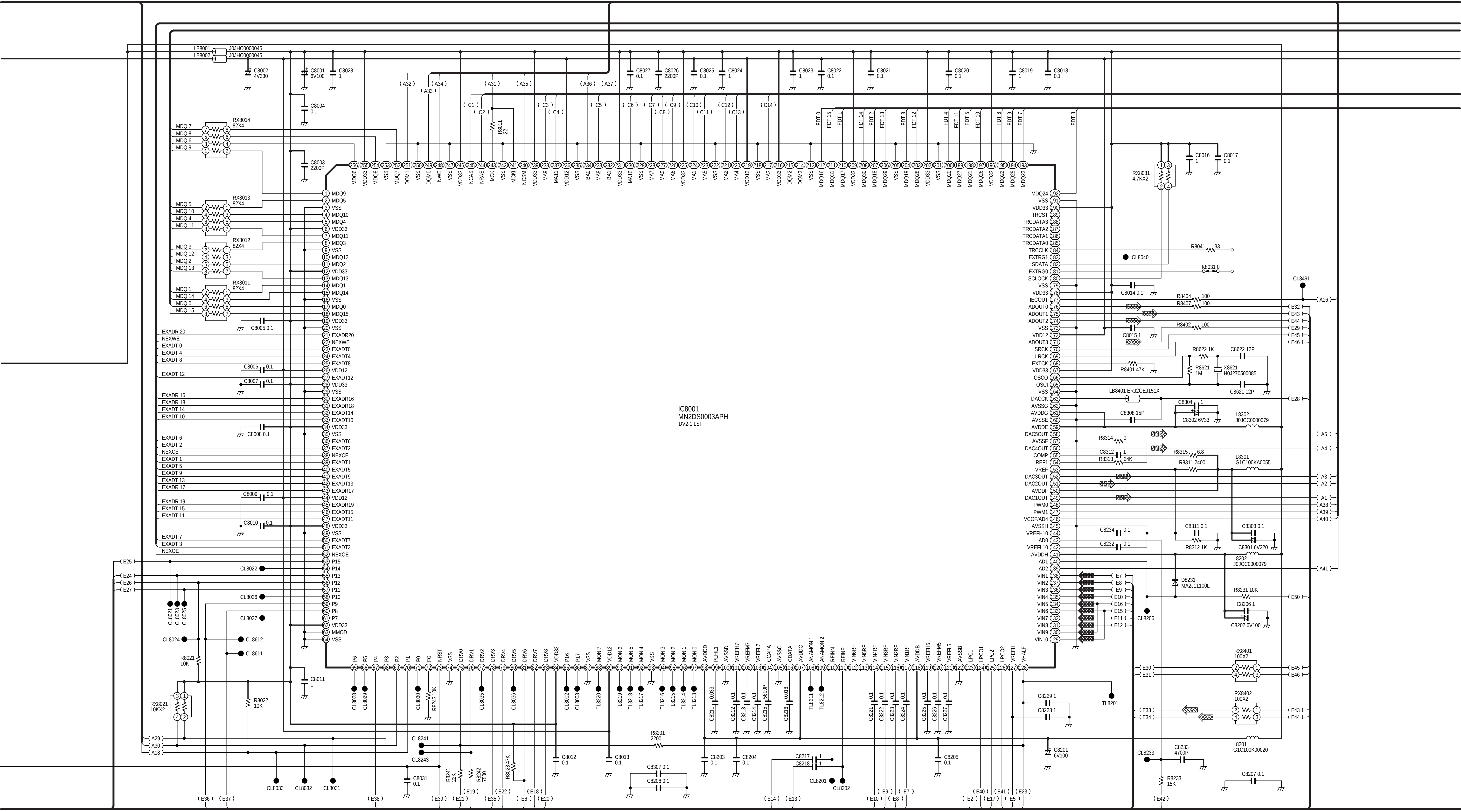
E50
E51

SA-HT840EB DVD MODULE CIRCUIT

SCHEMATIC DIAGRAM-2

A DVD MODULE CIRCUIT

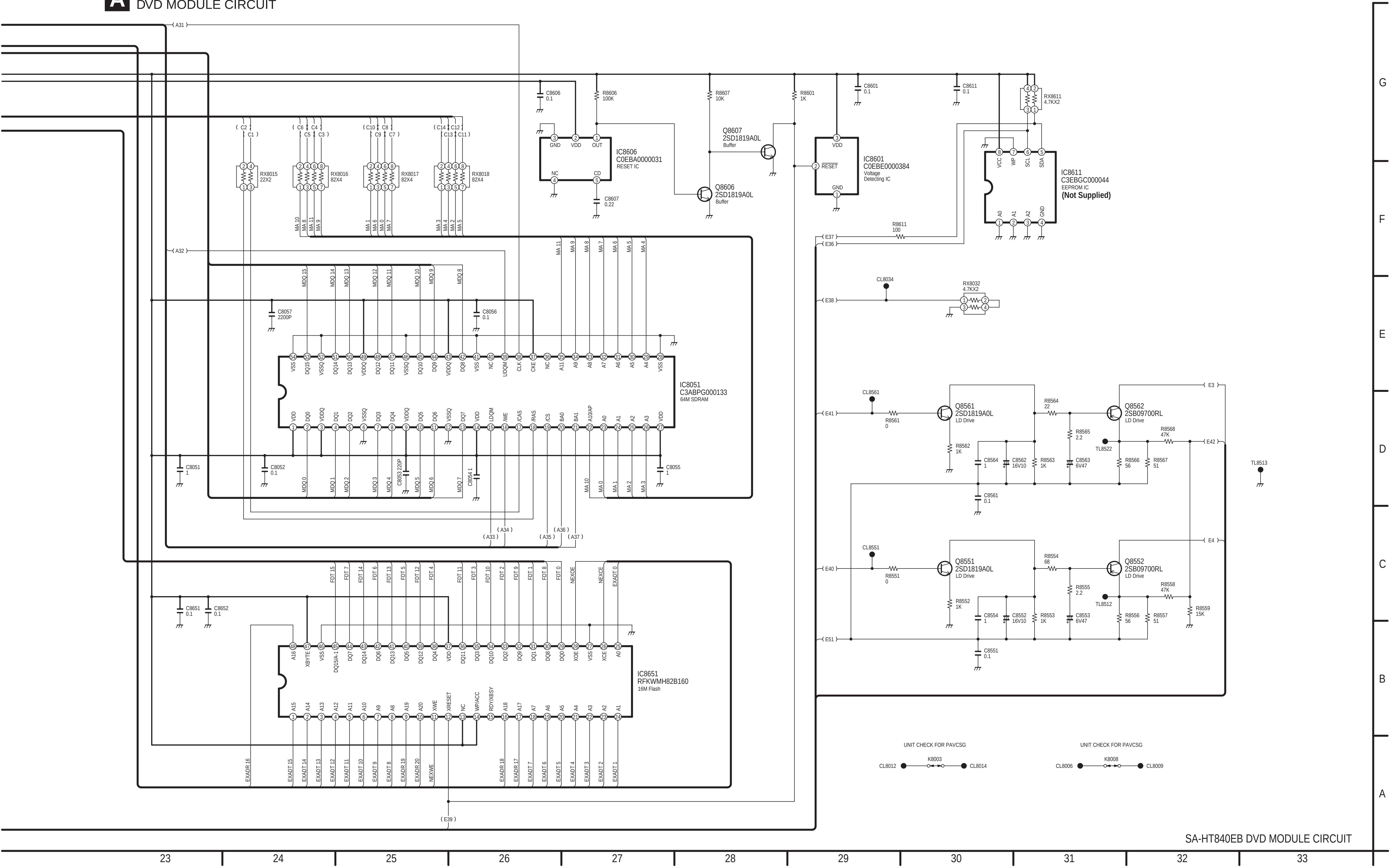
—— :+B SIGNAL LINE ▨ :CD-DA SIGNAL LINE ▨ :DVD(VIDEO) SIGNAL LINE ▨ :DVD(AUDIO) SIGNAL LINE


IC8001
MN2DS0003APH
DV2-1 LSI
LB8001 J0JHC0000045
LB8002 J0JHC0000045
C8002 4V330
C8001 6V100
C8028 1
C8004 0.1
C8003 2200P
RX8014 82X4
RX8013 82X4
RX8012 82X4
RX8011 82X4
RX8031 4.7KX2
RX8021 10KX2
RX8401 100X2
RX8402 100X2
R8011 22
R8021 10K
R8022 10K
R8201 2200
R8241 22K
R8242 7500
R8243 10K
R8023 47K
R8041 33
K8031 0
R8401 47K
R8404 100
R8407 100
R8402 100
R8622 1K
R8621 1M
X8621 H0J270500085
C8622 12P
C8621 12P
LB8401 ERJ2GEJ151X
C8304 1
C8302 6V33
C8308 15P
L8302 J0JCC0000079
R8314 0
R8315 6.8
C8312 1
R8313 24K
R8311 2400
L8301 G1C100KA0055
C8234 0.1
C8232 0.1
C8311 0.1
R8312 1K
C8303 0.1
C8301 6V220
L8202 J0JCC0000079
D8231 MA2J11100L
R8231 10K
C8206 1
C8202 6V100
C8201 6V100
C8229 1
C8228 1
L8201 G1C100K00020
C8233 4700P
R8233 15K
C8207 0.1
C8205 0.1
C8203 0.1
C8204 0.1
C8217 1
C8218 1
C8307 0.1
C8208 0.1
C8013 0.1
C8012 0.1
C8031 0.1
C8011 1
C8005 0.1
C8006 0.1
C8007 0.1
C8008 0.1
C8009 0.1
C8010 0.1
C8014 0.1
C8015 1
C8016 1
C8017 0.1
C8027 0.1
C8026 2200P
C8025 0.1
C8024 1
C8023 1
C8022 0.1
C8021 0.1
C8020 0.1
C8019 1
C8018 0.1
12
13
14
15
16
17
18
19
20
21
22

SA-HT840EB DVD MODULE CIRCUIT

SCHEMATIC DIAGRAM-3

A DVD MODULE CIRCUIT

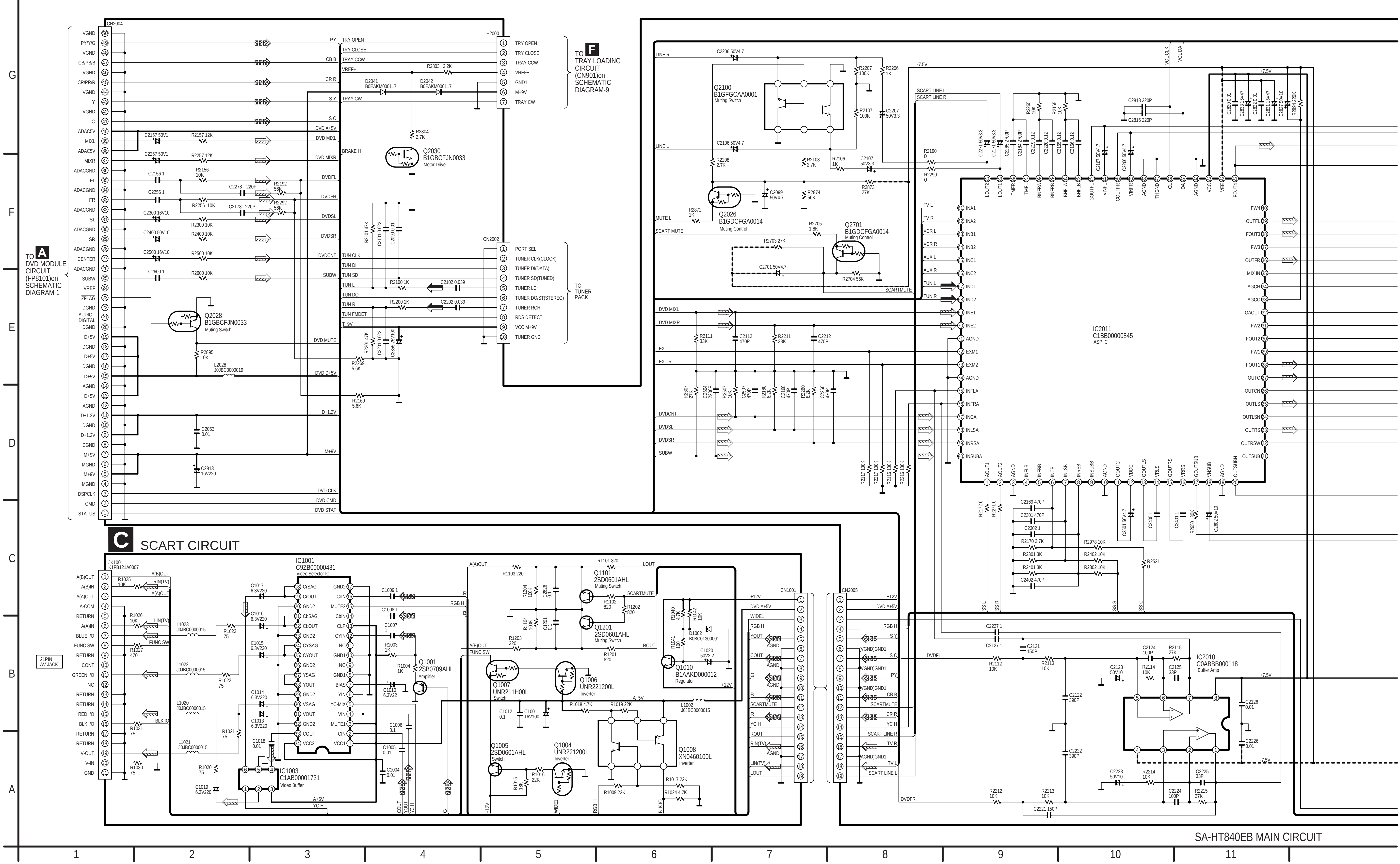


A31
A32
A33
A34
A35
A36
A37
C2
C1
C6
C5
C4
C3
C10
C9
C8
C7
C14
C13
C12
C11
RX8015
22X2
RX8016
82X4
RX8017
82X4
RX8018
82X4
MA 10
MA 8
MA 11
MA 9
MA 1
MA 6
MA 0
MA 7
MA 3
MA 4
MA 2
MA 5
C8606
0.1
R8606
100K
IC8606
C0EBA0000031
RESET IC
GND
VDD
OUT
NC
CD
C8607
0.22
R8607
10K
Q8607
2SD1819A0L
Buffer
Q8606
2SD1819A0L
Buffer
R8601
1K
IC8601
C0EBE0000384
Voltage
Detecting IC
VDD
RESET
GND
C8601
0.1
C8611
0.1
RX8611
4.7KX2
IC8611
C3EBGC000044
EEPROM IC
(Not Supplied)
VCC
WP
SCL
SDA
A0
A1
A2
GND
R8611
100
E37
E36
E38
CL8034
RX8032
4.7KX2
C8057
2200P
C8056
0.1
IC8051
C3ABPG000133
64M SDRAM
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
DQ10
DQ9
DQ8
NC
UDQM
CLK
CKE
A11
A9
A8
A7
A6
A5
A4
VDD
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10/AP
A0
A1
A2
A3
C8051
1
C8052
0.1
C8053 220P
C8054 1
C8055
1
MDQ 0
MDQ 1
MDQ 2
MDQ 3
MDQ 4
MDQ 5
MDQ 6
MDQ 7
MDQ 8
MDQ 9
MDQ 10
MDQ 11
MDQ 12
MDQ 13
MDQ 14
MDQ 15
MA 0
MA 1
MA 2
MA 3
MA 4
MA 5
MA 6
MA 7
MA 8
MA 9
MA 10
MA 11
C8651
0.1
C8652
0.1
IC8651
RFKWMH82B160
16M Flash
A16
XBYTE
DQ15/A-1
DQ14
DQ13
DQ12
XOE
XCE
XWE
XRESET
WP/ACC
RDY/XBSY
A15
A14
A13
A12
A10
A19
A20
A18
A17
FDT 0
FDT 1
FDT 2
FDT 3
FDT 4
FDT 5
FDT 6
FDT 7
FDT 8
FDT 9
FDT 10
FDT 11
FDT 12
FDT 13
FDT 14
FDT 15
NEXOE
NEXCE
EXADT 0
EXADT 1
EXADT 2
EXADT 3
EXADT 4
EXADT 5
EXADT 6
EXADT 7
EXADT 8
EXADT 9
EXADT 10
EXADT 11
EXADT 12
EXADT 13
EXADT 14
EXADT 15
EXADR 16
EXADR 17
EXADR 18
EXADR 19
EXADR 20
NEXWE
E39
CL8561
E41
R8561
0
Q8561
2SD1819A0L
LD Drive
R8562
1K
C8564
1
C8562
16V10
R8563
1K
R8564
22
R8565
2.2
C8563
6V47
C8561
0.1
Q8562
2SB09700RL
LD Drive
TL8522
R8566
56
R8567
51
R8568
47K
E3
E42
TL8513
CL8551
E40
R8551
0
Q8551
2SD1819A0L
LD Drive
R8552
1K
C8554
1
C8552
16V10
R8553
1K
R8554
68
R8555
2.2
C8553
6V47
C8551
0.1
Q8552
2SB09700RL
LD Drive
TL8512
R8556
56
R8557
51
R8558
47K
R8559
15K
E4
E51
UNIT CHECK FOR PAVCSG
K8003
CL8012
CL8014
UNIT CHECK FOR PAVCSG
K8008
CL8006
CL8009
G
F
E
D
C
B
A
23
24
25
26
27
28
29
30
31
32
33

SA-HT840EB DVD MODULE CIRCUIT

B MAIN CIRCUIT

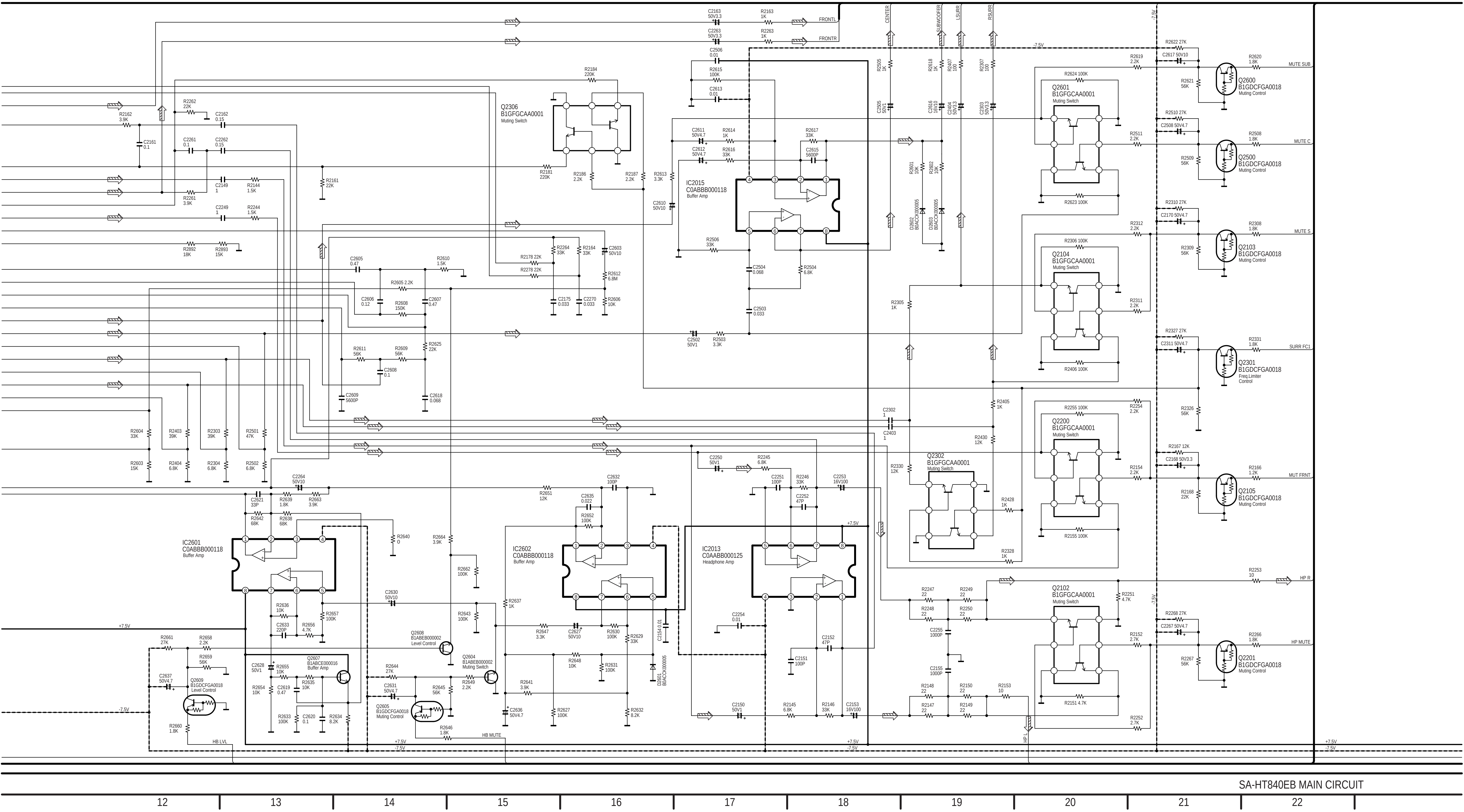
—— :+B SIGNAL LINE
- - - :-B SIGNAL LINE
▨ :MAIN SIGNAL LINE
▨ :DVD(VIDEO) SIGNAL LINE
➡ :FM/AM SIGNAL LINE


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
CN2004
TO A DVD MODULE CIRCUIT (FP8101)on SCHEMATIC DIAGRAM-1
H2000
TRY OPEN
TRY CLOSE
TRAY CCW
VREF+
GND1
M+9V
TRAY CW
TO F TRAY LOADING CIRCUIT (CN901)on SCHEMATIC DIAGRAM-9
Q2030 B1GBCFJN0033 Motor Drive
CN2002
PORT SEL
TUNER CLK(CLOCK)
TUNER DI(DATA)
TUNER SD(TUNED)
TUNER LCH
TUNER DO/ST(STEREO)
TUNER RCH
RDS DETECT
VCC M+9V
TUNER GND
TO TUNER PACK
Q2028 B1GBCFJN0033 Muting Switch
Q2100 B1GFGCAA0001 Muting Switch
Q2026 B1GDCFGA0014 Muting Control
Q2701 B1GDCFGA0014 Muting Control
IC2011 C1BB00000845 ASP IC
C SCART CIRCUIT
JK1001 K1FB121A0007
21PIN AV JACK
IC1001 C9ZB00000431 Video Selector IC
IC1003 C1AB00001731 Video Buffer
Q1001 2SB0709AHL Amplifier
Q1101 2SD0601AHL Muting Switch
Q1201 2SD0601AHL Muting Switch
Q1010 XN0460100L Regulator
Q1007 UNR211H00L Switch
Q1006 UNR221200L Inverter
Q1005 2SD0601AHL Switch
Q1004 UNR221200L Inverter
Q1008 XN0460100L Inverter
CN1001
CN2005
IC2010 C0ABBB000118 Buffer Amp

SCHEMATIC DIAGRAM-5

B MAIN CIRCUIT

:+B SIGNAL LINE :-B SIGNAL LINE :MAIN SIGNAL LINE


C2163 50V3.3
R2163 1K
FRONTL
C2263 50V3.3
R2263 1K
FRONTR
CENTER
SUBWOOFER
LSURR
RSURR
-7.5V
C2506 0.01
R2615 100K
C2613 0.01
R2184 220K
R2262 22K
C2162 0.15
R2162 3.9K
C2161 0.1
C2261 0.1
C2262 0.15
Q2306
B1GFGCAA0001
Muting Switch
R2181 220K
R2186 2.2K
R2187 2.2K
R2613 3.3K
C2611 50V4.7
R2614 1K
C2612 50V4.7
R2616 33K
R2617 33K
C2615 5600P
IC2015
C0ABBB000118
Buffer Amp
C2610 50V10
R2161 22K
C2149 1
R2144 1.5K
R2261 3.9K
C2249 1
R2244 1.5K
R2892 18K
R2893 15K
R2506 33K
C2504 0.068
R2504 6.8K
C2503 0.033
C2605 0.47
R2610 1.5K
R2605 2.2K
C2606 0.12
R2608 150K
C2607 0.47
R2178 22K
R2278 22K
R2264 33K
R2164 33K
C2603 50V10
R2612 6.8M
C2175 0.033
C2270 0.033
R2606 10K
C2502 50V1
R2503 3.3K
R2611 56K
R2609 56K
R2625 22K
C2608 0.1
C2609 5600P
C2618 0.068
R2604 33K
R2603 15K
R2403 39K
R2404 6.8K
R2303 39K
R2304 6.8K
R2501 47K
R2502 6.8K
R2505 1K
C2505 50V1
R2618 1K
C2616 16V10
R2407 100
C2404 50V33
R2307 100
C2303 50V33
R2601 10K
R2602 10K
D2602 B0ACCK000005
D2603 B0ACCK000005
R2305 1K
R2405 1K
R2430 12K
R2330 12K
C2302 1
C2403 1
Q2302
B1GFGCAA0001
Muting Switch
R2428 1K
R2328 1K
R2622 27K
C2617 50V10
R2619 2.2K
R2621 56K
R2620 1.8K
MUTE SUB
Q2600
B1GDCFGA0018
Muting Control
R2624 100K
Q2601
B1GFGCAA0001
Muting Switch
R2623 100K
R2510 27K
C2508 50V4.7
R2511 2.2K
R2509 56K
R2508 1.8K
MUTE C
Q2500
B1GDCFGA0018
Muting Control
R2310 27K
C2170 50V4.7
R2312 2.2K
R2309 56K
R2308 1.8K
MUTE S
Q2103
B1GDCFGA0018
Muting Control
R2306 100K
Q2104
B1GFGCAA0001
Muting Switch
R2311 2.2K
R2406 100K
R2327 27K
C2311 50V4.7
R2331 1.8K
SURR FC1
Q2301
B1GDCFGA0018
Freq.Limiter Control
R2326 56K
R2255 100K
R2254 2.2K
Q2200
B1GFGCAA0001
Muting Switch
R2154 2.2K
R2155 100K
R2167 12K
C2168 50V3.3
R2166 1.2K
MUT FRNT
R2168 22K
Q2105
B1GDCFGA0018
Muting Control
R2253 10
HP R
R2251 4.7K
Q2102
B1GFGCAA0001
Muting Switch
R2268 27K
C2267 50V4.7
R2152 2.7K
R2267 56K
R2266 1.8K
HP MUTE
Q2201
B1GDCFGA0018
Muting Control
R2151 4.7K
R2252 2.7K
C2264 50V10
C2621 33P
R2639 1.8K
R2663 3.9K
R2642 68K
R2638 68K
R2640 0
R2664 3.9K
IC2601
C0ABBB000118
Buffer Amp
R2636 10K
R2657 100K
C2633 220P
R2656 4.7K
R2662 100K
R2643 100K
C2630 50V10
R2651 12K
C2635 0.022
C2632 100P
R2652 100K
IC2602
C0ABBB000118
Buffer Amp
R2637 1K
R2647 3.3K
C2627 50V10
R2630 100K
R2629 33K
C2154 0.01
D2601 B0ACCK000005
R2648 10K
R2631 100K
R2641 3.9K
C2636 50V4.7
R2627 100K
R2632 8.2K
Q2608
B1ABEB000002
Level Control
Q2604
B1ABEB000002
Muting Switch
R2644 27K
C2631 50V4.7
R2645 56K
R2649 2.2K
Q2605
B1GDCFGA0018
Muting Control
R2646 1.8K
HB MUTE
+7.5V
R2661 27K
R2658 2.2K
R2659 56K
C2637 50V4.7
Q2609
B1GDCFGA0018
Level Control
-7.5V
R2660 1.8K
HB LVL
C2628 50V1
R2655 10K
Q2607
B1ABCE000016
Buffer Amp
R2654 10K
C2619 0.47
R2635 10K
R2633 100K
C2620 0.1
R2634 8.2K
C2250 50V1
R2245 6.8K
C2251 100P
R2246 33K
C2253 16V100
C2252 47P
IC2013
C0AABB000125
Headphone Amp
C2254 0.01
C2152 47P
C2151 100P
C2150 50V1
R2145 6.8K
R2146 33K
C2153 16V100
R2247 22
R2249 22
R2248 22
R2250 22
C2255 1000P
C2155 1000P
R2148 22
R2150 22
R2153 10
R2147 22
R2149 22
HP L
-7.5V
+7.5V
12
13
14
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16
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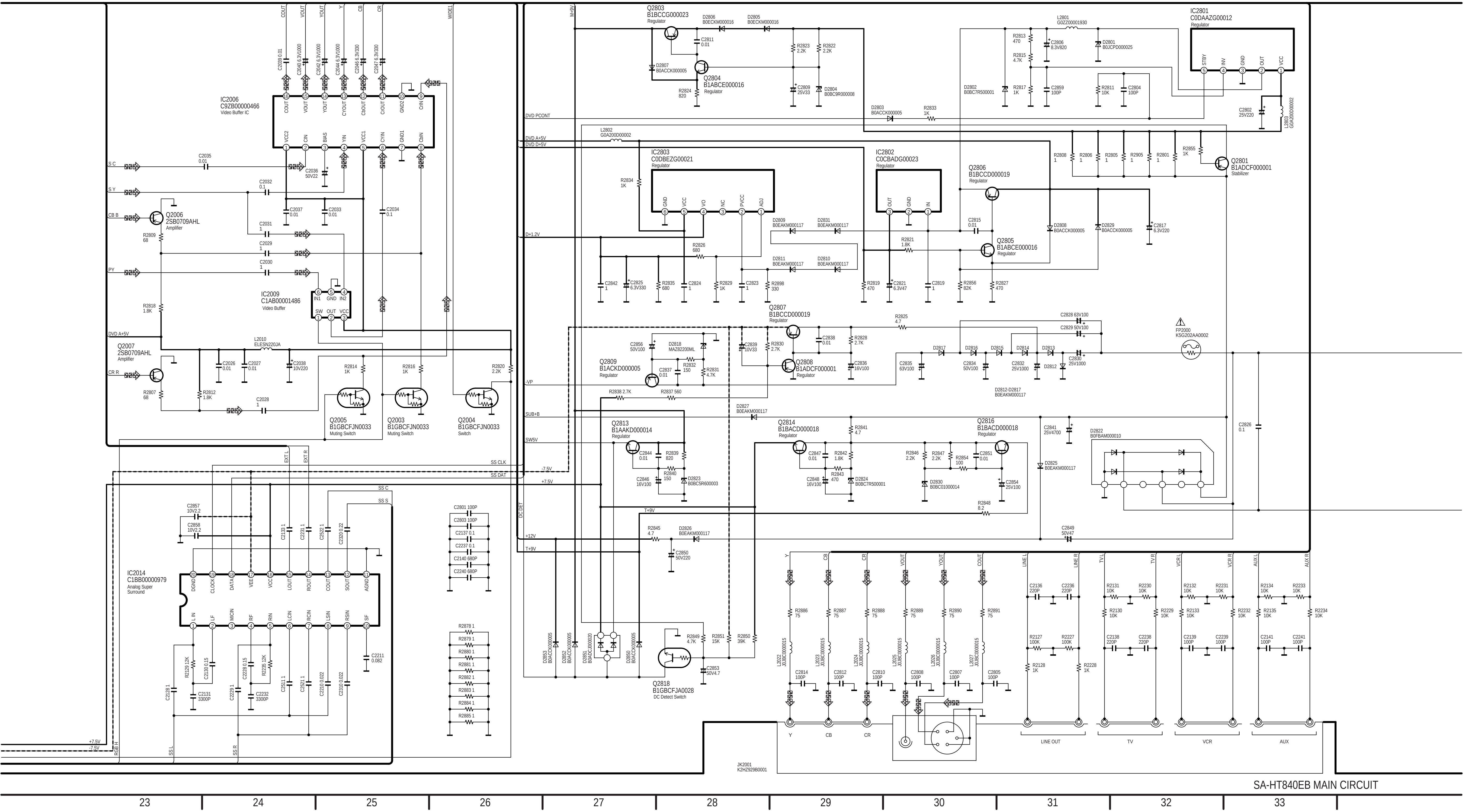
22

SA-HT840EB MAIN CIRCUIT

SCHEMATIC DIAGRAM-6

B MAIN CIRCUIT

—— :+B SIGNAL LINE
- - - :-B SIGNAL LINE
◇◇◇ :DVD(VIDEO) SIGNAL LINE



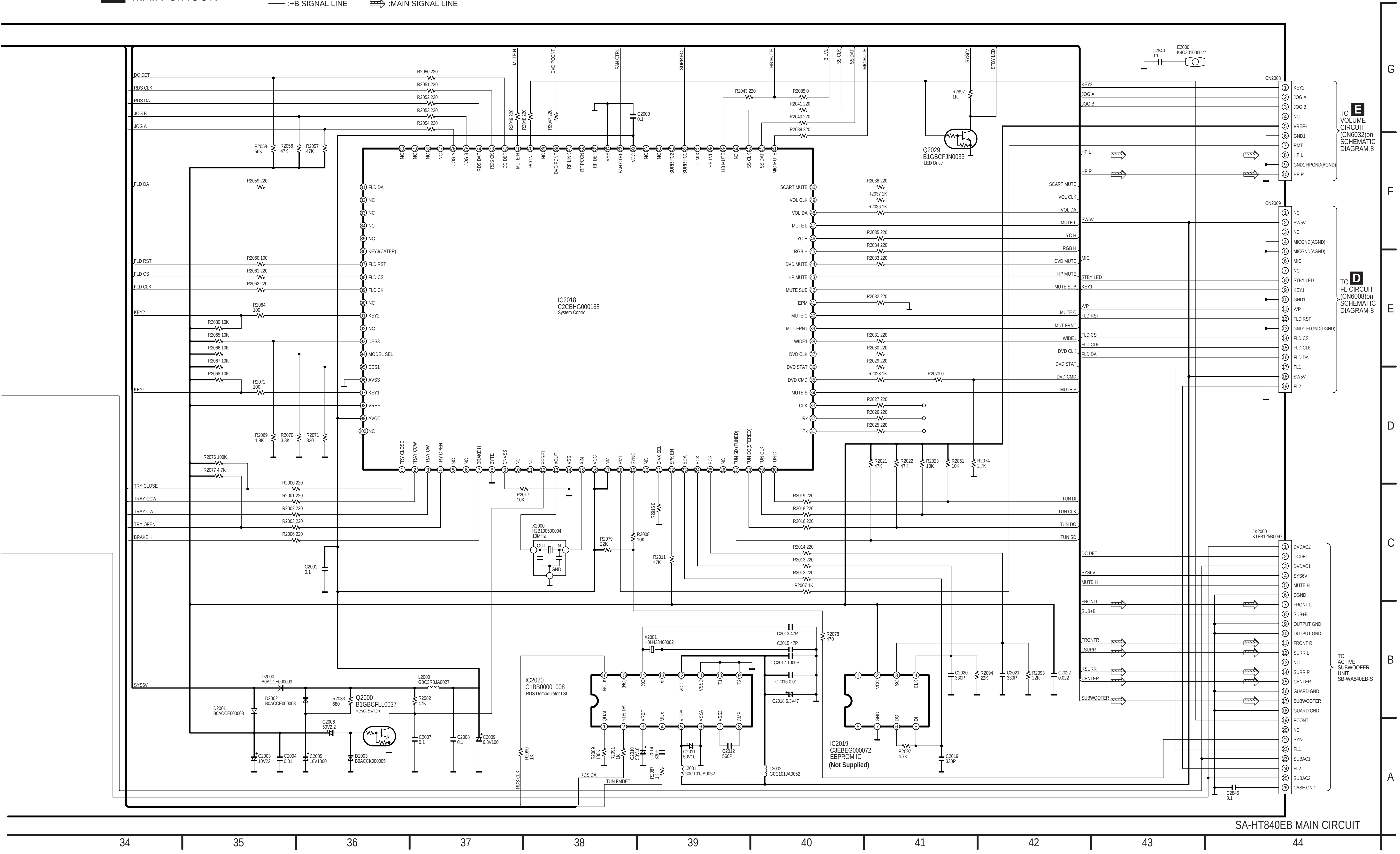
COUT
VOUT
YOUT
Y
CB
CR
WIDE1
M+9V
C2039 0.01
C2040 6.3V1000
C2042 6.3V1000
C2044 6.3V1000
C2046 6.3V330
C2047 6.3V330
IC2006
C9ZB00000466
Video Buffer IC
COUT
VOUT
YOUT
CYOUT
CBOUT
CrOUT
GND2
CrIN
VCC2
CIN
BIAS
YIN
VCC1
CYIN
GND1
CbIN
S C
S Y
CB B
PY
CR R
DVD A+5V
C2035 0.01
C2036 50V22
C2032 0.1
C2037 0.01
C2033 0.01
C2034 0.1
C2031 1
C2029 1
C2030 1
Q2006
2SB0709AHL
Amplifier
R2809 68
IC2009
C1AB00001486
Video Buffer
IN1
GND
IN2
SW
OUT
VCC
R2818 1.8K
L2010
ELESN220JA
Q2007
2SB0709AHL
Amplifier
C2026 0.01
C2027 0.01
C2038 10V220
R2814 1K
R2816 1K
R2820 2.2K
R2807 68
R2812 1.8K
C2028 1
Q2005
B1GBCFJN0033
Muting Switch
Q2003
B1GBCFJN0033
Muting Switch
Q2004
B1GBCFJN0033
Switch
Q2803
B1BCCG000023
Regulator
D2806
B0ECKM000016
D2805
B0ECKM000016
C2811 0.01
R2823 2.2K
R2822 2.2K
D2807
B0ACCK000005
Q2804
B1ABCE000016
Regulator
R2824 820
C2809 25V33
D2804
B0BC9R000008
DVD PCONT
DVD A+5V
DVD D+5V
L2802
G0A200D00002
IC2803
C0DBEZG00021
Regulator
R2834 1K
GND
VCC
VO
NC
PVCC
ADJ
IC2802
C0CBADG00023
Regulator
OUT
GND
IN
D2803
B0ACCK000005
R2833 1K
L2801
G0ZZ00001930
R2813 470
C2806 6.3V820
D2801
B0JCPD000025
R2815 4.7K
D2802
B0BC7R500001
R2817 1K
C2859 100P
R2811 10K
C2804 100P
IC2801
C0DAAZG00012
Regulator
STBY
INV
GND
OUT
VCC
C2802 25V220
L2803
G0A200D00002
R2808 1
R2806 1
R2805 1
R2905 1
R2801 1
R2855 1K
Q2801
B1ADCF000001
Stabilizer
Q2806
B1BCCD000019
Regulator
D2809
B0EAKM000117
D2831
B0EAKM000117
C2815 0.01
R2821 1.8K
Q2805
B1ABCE000016
Regulator
D2808
B0ACCK000005
D2829
B0ACCK000005
C2817 6.3V220
D+1.2V
R2826 680
D2811
B0EAKM000117
D2810
B0EAKM000117
C2842 1
C2825 6.3V330
R2835 680
C2824 1
R2829 1K
C2823 1
R2898 330
R2819 470
C2821 6.3V47
C2819 1
R2856 82K
R2827 470
Q2807
B1BCCD000019
Regulator
R2825 4.7
C2828 63V100
C2829 50V100
FP2000
K5G202AA0002
C2856 50V100
D2818
MAZ82200ML
C2839 10V33
R2830 2.7K
C2838 0.01
R2828 2.7K
Q2809
B1ACKD000005
Regulator
C2837 0.01
R2832 150
R2831 4.7K
Q2808
B1ADCF000001
Regulator
C2836 16V100
C2835 63V100
D2817
D2816
D2815
D2814
D2813
C2834 50V100
C2832 25V1000
D2812
C2830 25V1000
D2812-D2817
B0EAKM000117
-VP
R2838 2.7K
R2837 560
D2827
B0EAKM000117
SUB+B
Q2813
B1AAKD000014
Regulator
Q2814
B1BACD000018
Regulator
R2841 4.7
Q2816
B1BACD000018
Regulator
C2841 25V4700
D2822
B0FBAM000010
C2826 0.1
SW5V
C2844 0.01
R2839 820
C2847 0.01
R2842 1.8K
R2846 2.2K
R2847 2.2K
R2854 100
C2851 0.01
SS CLK
SS DAT
-7.5V
+7.5V
C2846 16V100
R2840 150
D2823
B0BC5R600003
C2848 16V100
R2843 470
D2824
B0BC7R500001
D2830
B0BC01000014
C2854 25V100
D2825
B0EAKM000117
R2848 8.2
EXT L
EXT R
SS C
SS S
C2857 10V2.2
C2858 10V2.2
C2133 1
C2231 1
C2522 1
C2220 0.22
DC DET
T+9V
+12V
T+9V
R2845 4.7
D2826
B0EAKM000117
C2850 50V220
C2849 50V47
C2801 100P
C2803 100P
C2137 0.1
C2237 0.1
C2140 680P
C2240 680P
IC2014
C1BB00000979
Analog Super Surround
DGND
CLOCK
DATA
VEE
VCC
LOUT
ROUT
COUT
SOUT
AGND
L IN
LF
MICIN
RF
RIN
LCIN
RCIN
LSIN
RSIN
SF
C2211 0.082
R2129 12K
C2130 0.15
C2131 3300P
C2128 1
C2229 1
C2228 0.15
R2235 12K
C2232 3300P
C2511 1
C2521 1
C2210 0.022
C2310 0.022
R2878 1
R2879 1
R2880 1
R2881 1
R2882 1
R2883 1
R2884 1
R2885 1
+7.5V
-7.5V
RGB H
SS L
SS R
D2853
B0ACCK000005
D2852
B0ACCK000005
D2851
B0ADCJ000020
D2850
B0ACCK000005
R2849 4.7K
R2851 15K
R2850 39K
Q2818
B1GBCFJA0028
DC Detect Switch
C2853 50V4.7
Y
CB
CR
VOUT
YOUT
COUT
R2886 75
R2887 75
R2888 75
R2889 75
R2890 75
R2891 75
L2022
J0JBC0000015
L2023
J0JBC0000015
L2024
J0JBC0000015
L2025
J0JBC0000015
L2026
J0JBC0000015
L2027
J0JBC0000015
C2814 100P
C2812 100P
C2810 100P
C2808 100P
C2807 100P
C2805 100P
LINE L
LINE R
TV L
TV R
VCR L
VCR R
AUX L
AUX R
C2136 220P
C2236 220P
R2131 10K
R2230 10K
R2132 10K
R2231 10K
R2134 10K
R2233 10K
R2130 10K
R2229 10K
R2133 10K
R2232 10K
R2135 10K
R2234 10K
R2127 100K
R2227 100K
C2138 220P
C2238 220P
C2139 100P
C2239 100P
C2141 100P
C2241 100P
R2128 1K
R2228 1K
Y
CB
CR
LINE OUT
TV
VCR
AUX
JK2001
K2HZ929B0001
23
24
25
26
27
28
29
30
31
32
33

SA-HT840EB MAIN CIRCUIT

SCHEMATIC DIAGRAM-7

B MAIN CIRCUIT

—— :+B SIGNAL LINE ⇨ :MAIN SIGNAL LINE

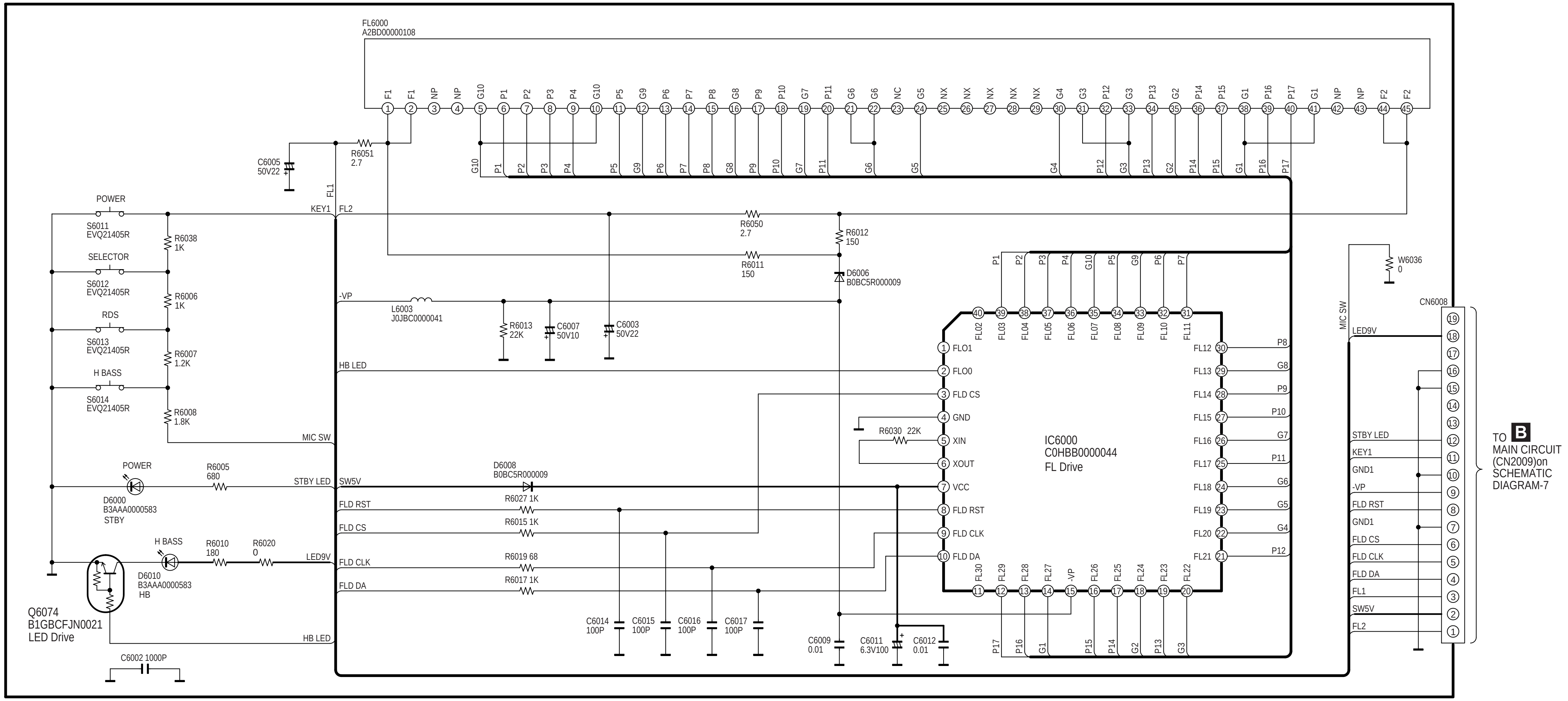

IC2018
C2CBHG000168
System Control
IC2020
C1BB00001008
RDS Demodulator LSI
IC2019
C3EBEG000072
EEPROM IC
(Not Supplied)
Q2029
B1GBCFJN0033
LED Drive
Q2000
B1GBCFLL0037
Reset Switch
X2000
H2B100500004
10MHz
X2001
H0H433400002
D2000
B0ACCE000003
D2001
B0ACCE000003
D2002
B0ACCE000003
D2003
B0ACCK000005
L2000
G0C3R3JA0027
L2001
G0C101JA0052
L2002
G0C101JA0052
E2000
K4CZ01000027
CN2008
TO E VOLUME CIRCUIT (CN6032)on SCHEMATIC DIAGRAM-8
CN2009
TO D FL CIRCUIT (CN6008)on SCHEMATIC DIAGRAM-8
JK2000
K1FB125B0097
TO ACTIVE SUBWOOFER UNIT SB-WA840EB-S
G
F
E
D
C
B
A
34
35
36
37
38
39
40
41
42
43
44

SA-HT840EB MAIN CIRCUIT

SCHEMATIC DIAGRAM-8

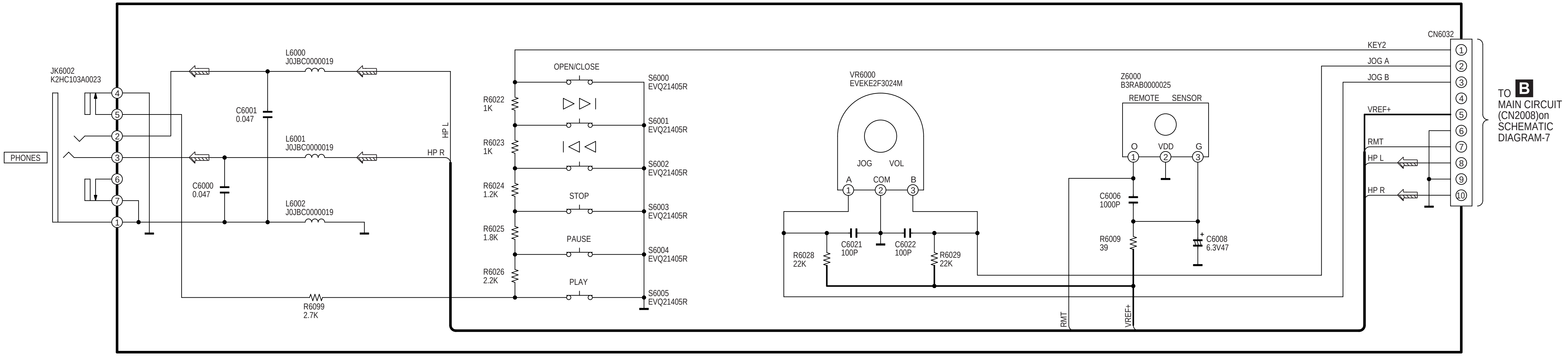
D FL CIRCUIT

— :+B SIGNAL LINE ⇨ :MAIN SIGNAL LINE



FL6000
A2BD00000108
F1 F1 NP NP G10 P1 P2 P3 P4 G10 P5 G9 P6 P7 P8 G8 P9 P10 G7 P11 G6 G6 NC G5 NX NX NX NX NX G4 G3 P12 G3 P13 G2 P14 P15 G1 P16 P17 G1 NP NP F2 F2
C6005
50V22
R6051
2.7
FL1
KEY1
FL2
POWER
S6011
EVQ21405R
R6038
1K
SELECTOR
S6012
EVQ21405R
R6006
1K
RDS
S6013
EVQ21405R
R6007
1.2K
H BASS
S6014
EVQ21405R
R6008
1.8K
MIC SW
R6050
2.7
R6012
150
R6011
150
D6006
B0BC5R000009
-VP
L6003
J0JBC0000041
R6013
22K
C6007
50V10
C6003
50V22
HB LED
IC6000
C0HBB0000044
FL Drive
FLO1
FLO0
FLD CS
GND
XIN
XOUT
VCC
FLD RST
FLD CLK
FLD DA
R6030 22K
FL12 FL13 FL14 FL15 FL16 FL17 FL18 FL19 FL20 FL21
P8 G8 P9 P10 G7 P11 G6 G5 G4 P12
FL02 FL03 FL04 FL05 FL06 FL07 FL08 FL09 FL10 FL11
FL30 FL29 FL28 FL27 -VP FL26 FL25 FL24 FL23 FL22
P17 P16 G1 P15 P14 G2 P13 G3
POWER
D6000
B3AAA0000583
STBY
R6005
680
STBY LED
SW5V
D6008
B0BC5R000009
R6027 1K
R6015 1K
R6019 68
R6017 1K
H BASS
D6010
B3AAA0000583
HB
R6010
180
R6020
0
LED9V
Q6074
B1GBCFJN0021
LED Drive
C6002 1000P
C6014
100P
C6015
100P
C6016
100P
C6017
100P
C6009
0.01
C6011
6.3V100
C6012
0.01
W6036
0
MIC SW
LED9V
CN6008
STBY LED
KEY1
GND1
-VP
FLD RST
GND1
FLD CS
FLD CLK
FLD DA
FL1
SW5V
FL2
TO B
MAIN CIRCUIT
(CN2009)on
SCHEMATIC
DIAGRAM-7

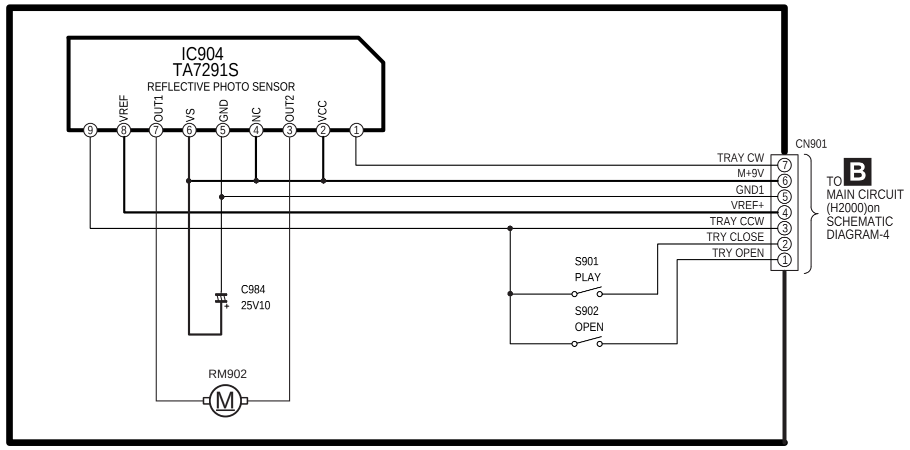
E VOLUME CIRCUIT

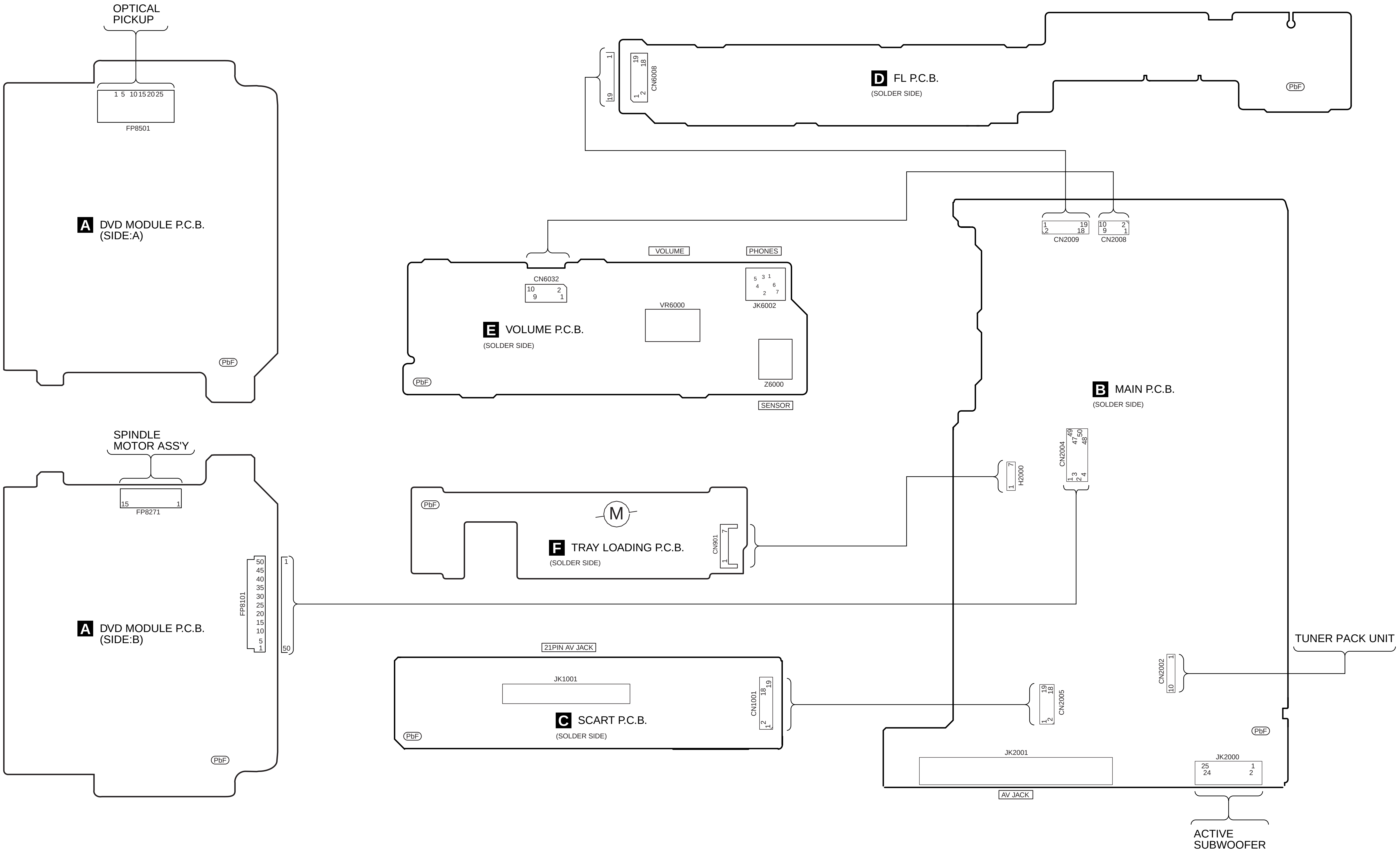


JK6002
K2HC103A0023
PHONES
L6000
J0JBC0000019
C6001
0.047
L6001
J0JBC0000019
C6000
0.047
L6002
J0JBC0000019
HP L
HP R
R6099
2.7K
OPEN/CLOSE
S6000
EVQ21405R
R6022
1K
S6001
EVQ21405R
R6023
1K
S6002
EVQ21405R
R6024
1.2K
STOP
S6003
EVQ21405R
R6025
1.8K
PAUSE
S6004
EVQ21405R
R6026
2.2K
PLAY
S6005
EVQ21405R
VR6000
EVEKE2F3024M
JOG VOL
A COM B
C6021
100P
C6022
100P
R6028
22K
R6029
22K
Z6000
B3RAB0000025
REMOTE SENSOR
O VDD G
C6006
1000P
R6009
39
C6008
6.3V47
RMT
VREF+
CN6032
KEY2
JOG A
JOG B
VREF+
RMT
HP L
HP R
TO B
MAIN CIRCUIT
(CN2008)on
SCHEMATIC
DIAGRAM-7

SCHEMATIC DIAGRAM-9

F TRAY LOADING CIRCUIT


IC904
TA7291S
REFLECTIVE PHOTO SENSOR
VREF
OUT1
VS
GND
NC
OUT2
VCC
⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ①
CN901
TRAY CW ⑦
M+9V ⑥
GND1 ⑤
VREF+ ④
TRAY CCW ③
TRY CLOSE ②
TRY OPEN ①
TO B
MAIN CIRCUIT
(H2000)on
SCHEMATIC
DIAGRAM-4
S901
PLAY
S902
OPEN
C984
25V10
RM902
M


OPTICAL PICKUP
1 5 10 15 20 25
FP8501
A DVD MODULE P.C.B. (SIDE:A)
PbF
SPINDLE MOTOR ASS'Y
15 1
FP8271
FP8101
50 45 40 35 30 25 20 15 10 5 1
1
50
A DVD MODULE P.C.B. (SIDE:B)
PbF
1
19
19 18
1 2
CN6008
D FL P.C.B.
(SOLDER SIDE)
PbF
VOLUME
PHONES
CN6032
10 2
9 1
VR6000
5 3 1 4 6 2 7
JK6002
E VOLUME P.C.B.
(SOLDER SIDE)
Z6000
PbF
SENSOR
PbF
M
CN901
7
1
F TRAY LOADING P.C.B.
(SOLDER SIDE)
21PIN AV JACK
JK1001
CN1001
19 18
2 1
C SCART P.C.B.
(SOLDER SIDE)
PbF
1 19
2 18
CN2009
10 2
9 1
CN2008
B MAIN P.C.B.
(SOLDER SIDE)
CN2004
49 47 50 48
1 3 2 4
7
1
H2000
TUNER PACK UNIT
CN2002
1
10
19 18
1 2
CN2005
PbF
JK2001
AV JACK
JK2000
25 1
24 2
ACTIVE SUBWOOFER

SA-HT840EB WIRING CONNECTION

Discs that can be played

Disc	Logo	Indication in these operating instructions	Remarks
DVD-RAM	DVD RAM RAM4.7	RAM	Recorded with devices using Version 1.1 of the Video Recording Format (a unified video recording standard), such as DVD video recorders, DVD video cameras, personal computers, etc.
		JPEG	Recorded using the DCF (Design rule for Camera File system) standard Version 1.0. ● To play JPEG files, select "Play as Data Disc" in Other Menu.
DVD-Audio	DVD AUDIO	DVD-A	—
		DVD-V	Some DVD-Audio discs contain DVD-Video content. To play DVD-Video content, select "Play as DVD-Video" in Other Menu.
DVD-Video	DVD VIDEO DVD VIDEO	DVD-V	—
DVD-R (DVD-Video)/ DVD-RW (DVD-Video)	DVD R R4.7 DVD R W		Discs recorded and finalized※ on DVD video recorders or DVD video cameras.
+ R (Video)/ + RW (Video)	—		Discs recorded and finalized※ on DVD video recorders or DVD video cameras.
Video CD	COMPACT disc DIGITAL VIDEO	VCD	—
SVCD	COMPACT disc SUPER VIDEO		Conforming to IEC62107
CD	COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT	CD	This unit is compatible with HDCD, but does not support the Peak Extend function (a function which expands the dynamic range of high level signals). HDCD-encoded CD's sound better because they are encoded with 20 bits, as compared with 16 bits for all other CD's.
CD-R CD-RW	—	WMA MP3 JPEG CD VCD	● This unit can play CD-R/RW (audio recording disc) recorded with the formats on the left. Close the sessions or finalize※ the disc after recording. ● **HighMAT discs** WMA, MP3 or JPEG files only. To play without using the HighMAT function, select "Play as Data Disc" in Other Menu. ● WMA This unit does not support Multiple Bit Rate (MBR: a file that contains the same content encoded at several different bit rates).

※ A process that allows play on compatible equipment.

- It may not be possible to play the above discs in all cases due to the type of disc or condition of the recording.

Discs that cannot be played

DVD-ROM, CD-ROM, CDV, CD-G, SACD, DivX Video Discs and Photo CD, DVD-RAM that cannot be removed from their cartridge, 2.6-GB and 5.2-GB DVD-RAM and "Chaoji VCD" available on the market including CVD, DVCD and SVCD that do not conform to IEC62107.

Audio format of DVD' s

This unit automatically recognizes and decodes discs with these symbols.

DOLBY DIGITAL

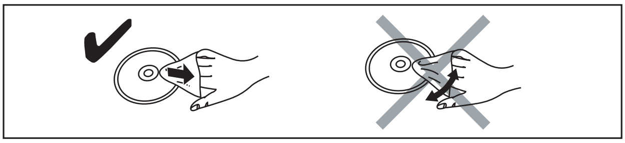
DIGITAL dts SURROUND

Video systems

– This unit can play PAL and NTSC, but your television must match the system used on the disc.
– PAL discs cannot be correctly viewed on an NTSC television.
– This unit can convert NTSC signals to PAL 60 for viewing on a PAL television.

To clean discs

Wipe with a damp cloth and then wipe dry.

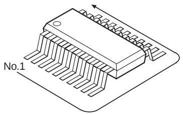


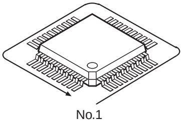
Disc handling precautions

- Do not attach labels or stickers to discs (This may cause disc warping, rendering it unusable).
- Do not write on the label side with a ball-point pen or other writing instrument.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Do not use scratch-proof protectors or covers.
- Do not use the following discs:
  - Discs with exposed adhesive from removed stickers or labels (rented discs, etc.).
  - Discs that are badly warped or cracked.
  - Irregularly shaped discs, such as heart shapes.

C0ABBB000118 (8p)
C0FBBK000050 (16p)
C0CBCBD00018 (8p)

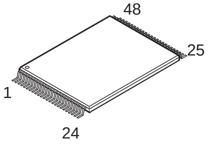
B1ABCE000016 (8p)
C1BB00000979 (20p)
C1BB00001008(16p)
C3ABPG000133(54p)
C3EBEG000072 (8p)
C3EBGC000044 (8p)
C9ZB00000431 (34p)
C9ZB00000466 (16p)



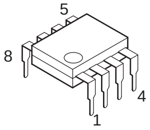


C0HBB0000044 (40p)
C2CBHG000168(100p)
C1BB00000845 (80p)
MN2DS0003APH (256p)

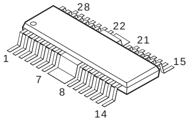
RFKWMH82B160



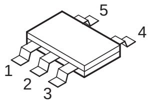
C0AABB000125



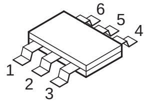
C0GBG0000048


28
22
21
1
15
7
8
14

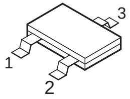
C0EBA0000031
C0JBAA000346



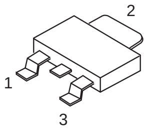
XN0460100L
C1AB00001486
C1AB00001731



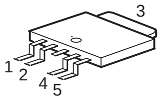
C0EBE0000384



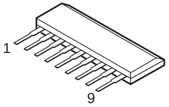
C0CBADG00023



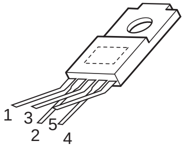
C0DBEZG00021



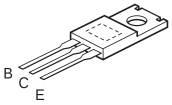
C0GAH0000002



C0DAAZG00012



B1BCCG000023



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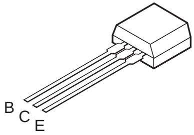
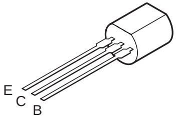
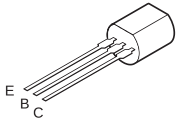
B1BACD000018



B1AAKD000012
B1ACKD000005



B1AAKD000014



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2SB09700RL
2SB1219AHL
2SD0601AHL
2SD1819A0L
B1ABEB000002
B1ADCF000001
B1GDCFGA0014
B1GDCFGA0018

B1GBCFLL0037
B1GBCFJN0033
B1GBCFJA0028
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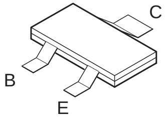
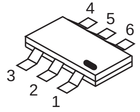
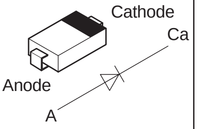
UNR221200L
UNR511V00L
UNR521100L
UNR521400L



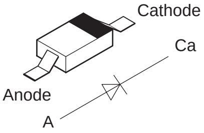
B1GFGCAA0001



B0ACCE000003
B0ECKM000016


Cathode
Ca
Anode
A

B0BC5R000009
MAZ82200ML


Cathode
Ca
Anode
A

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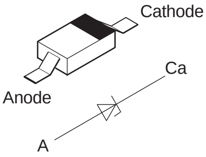
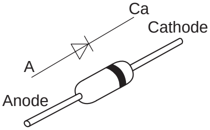
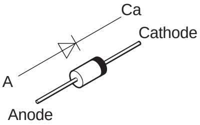

Cathode
Anode
Ca
A

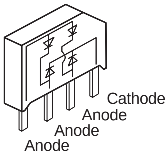
MA2J72800L


Ca
Cathode
A
Anode

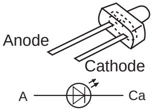
B0EAKM000117


Ca
Cathode
A
Anode

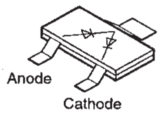
B0FBAM000010


Cathode
Anode
Anode
Anode

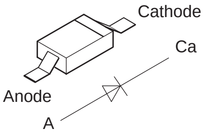
B3AAA0000583


Anode
Cathode
A
Ca

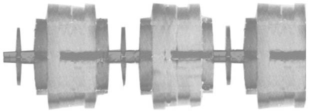
B0ADCJ000020


Anode
Cathode

MA2J11100L

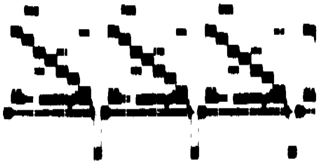

Cathode
Ca
Anode
A

WF No. IC2006-2 (PLAY)



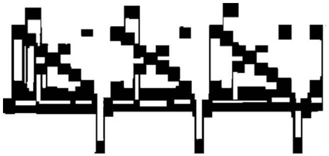
0.6Vp-p(20usec/div)

WF No. IC2006-4 (PLAY)



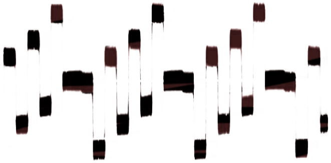
1.1Vp-p(20usec/div)

WF No. IC2006-6 (PLAY)



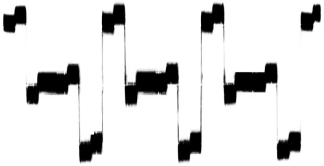
1.1Vp-p(20usec/div)

WF No. IC2006-8 (PLAY)



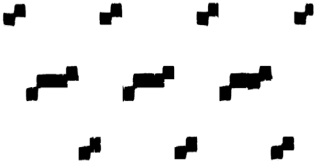
0.5Vp-p(20usec/div)

WF No. IC2006-9 (PLAY)



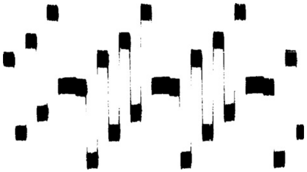
0.5Vp-p(20usec/div)

WF No. IC2006-11 (PLAY)



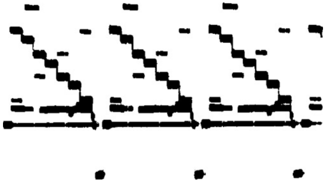
1.0Vp-p(20usec/div)

WF No. IC2006-12 (PLAY)



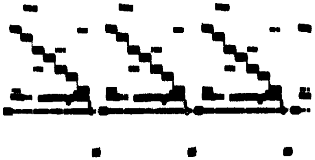
1.0Vp-p(20usec/div)

WF No. IC2006-13 (PLAY)



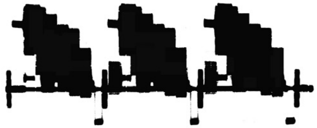
2.1Vp-p(20usec/div)

WF No. IC2006-14 (PLAY)



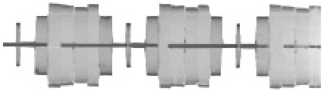
2.1Vp-p(20usec/div)

WF No. IC2006-15 (PLAY)



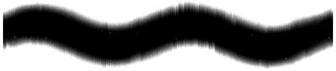
2.1Vp-p(20usec/div)

WF No. IC2006-16 (PLAY)



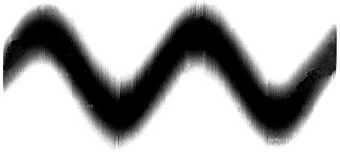
1.2Vp-p(20usec/div)

WF No. IC2011-36 (PLAY)



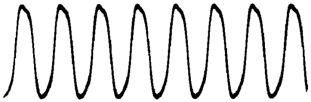
40mVp-p(200usec/div)

WF No. IC2013-7 (PLAY)



80mVp-p(200usec/div)

WF No. IC2018-13 (PLAY)



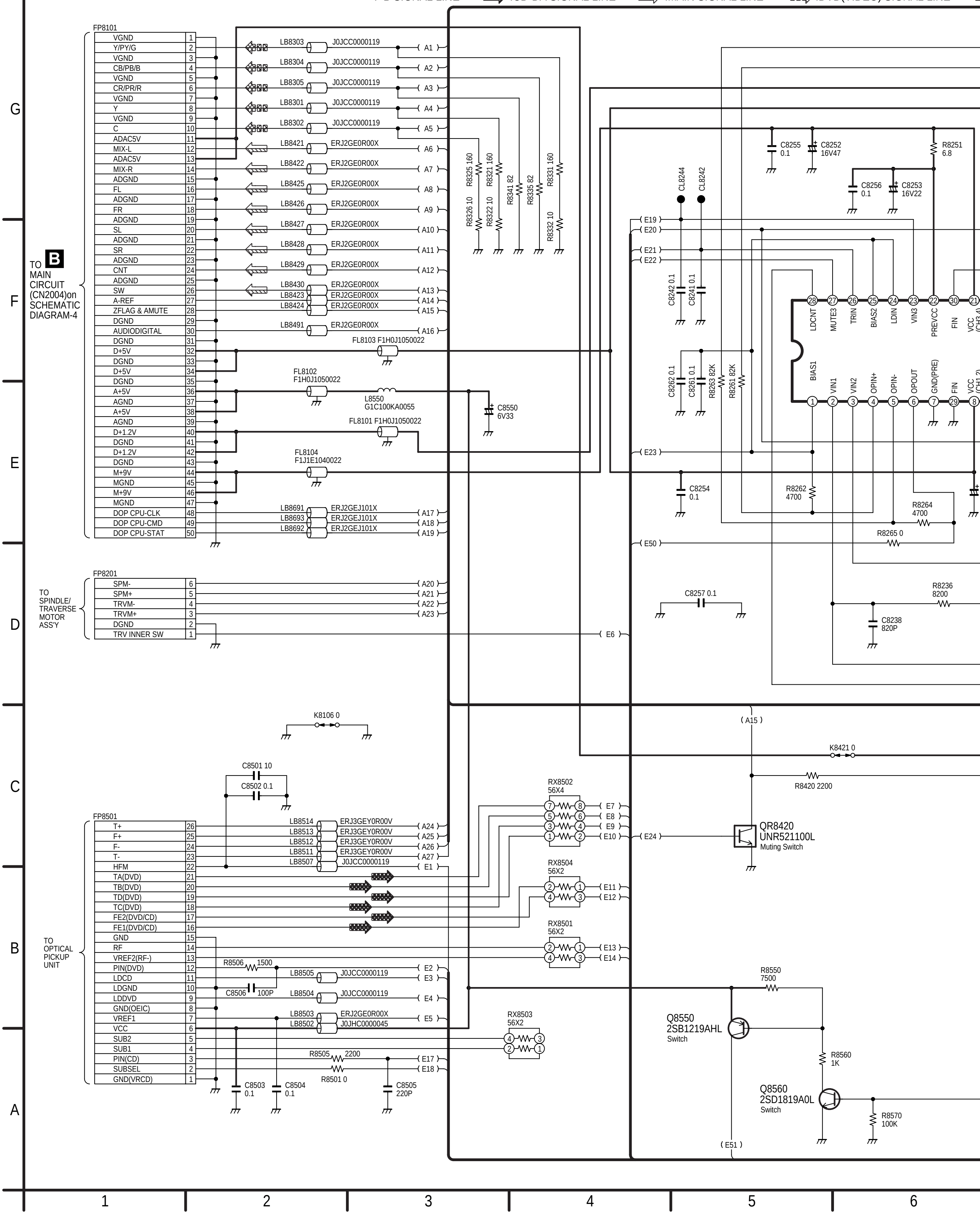
3.8Vp-p(100nsec/div)

23 Schematic Diagram

SCHEMATIC DIAGRAM-1

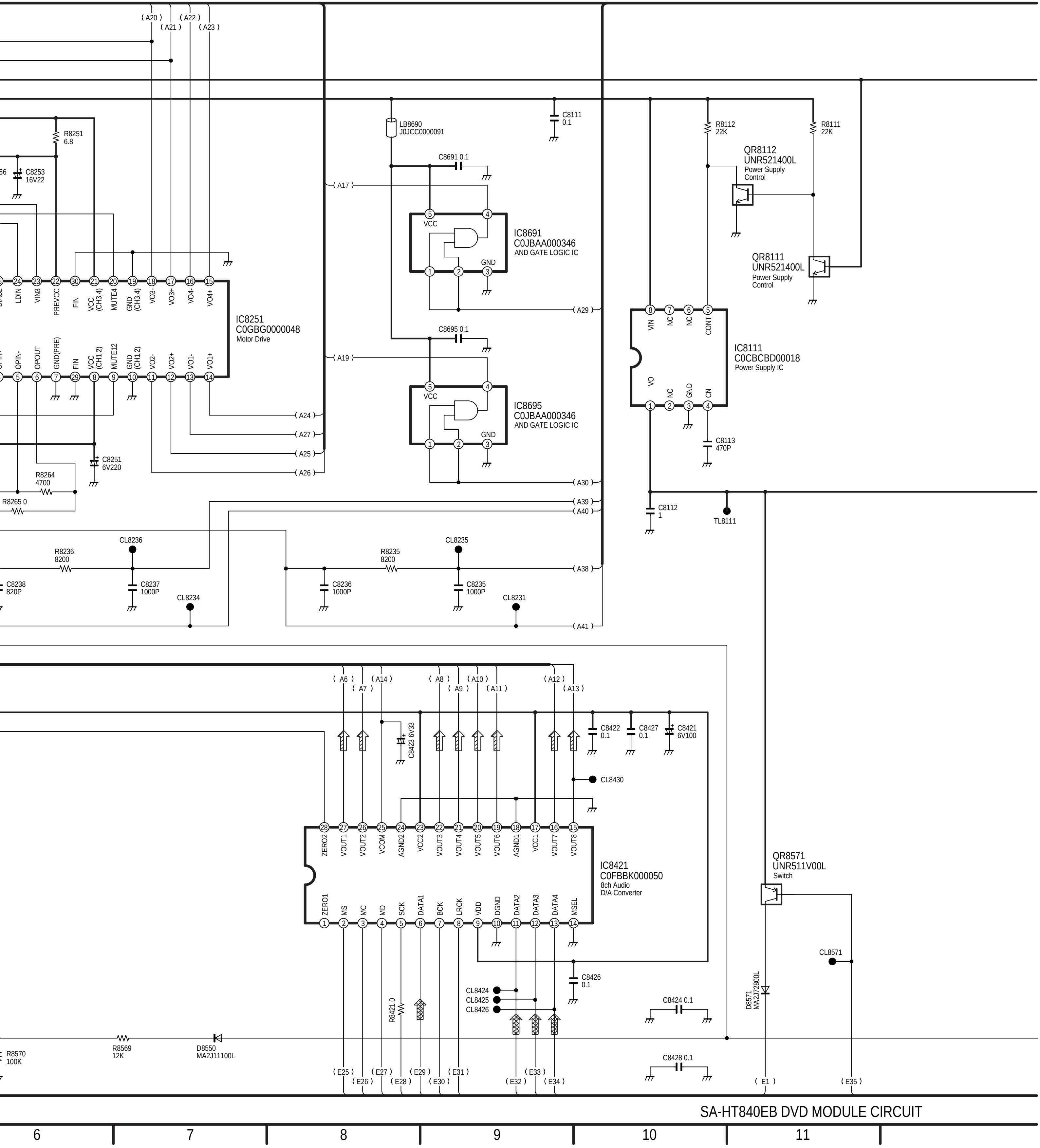
A DVD MODULE CIRCUIT

:+B SIGNAL LINE :CD-DA SIGNAL LINE :MAIN SIGNAL LINE :DVD(VIDEO) SIGNAL LINE



FP8101
VGND
Y/PY/G
CB/PB/B
CR/PR/R
Y
C
ADAC5V
MIX-L
MIX-R
ADGND
FL
FR
SL
SR
CNT
SW
A-REF
ZFLAG & AMUTE
DGND
AUDIODIGITAL
D+5V
A+5V
AGND
D+1.2V
M+9V
MGND
DOP CPU-CLK
DOP CPU-CMD
DOP CPU-STAT
TO
B
MAIN CIRCUIT (CN2004)on SCHEMATIC DIAGRAM-4
LB8303 J0JCC0000119
LB8304 J0JCC0000119
LB8305 J0JCC0000119
LB8301 J0JCC0000119
LB8302 J0JCC0000119
LB8421 ERJ2GE0R00X
LB8422 ERJ2GE0R00X
LB8425 ERJ2GE0R00X
LB8426 ERJ2GE0R00X
LB8427 ERJ2GE0R00X
LB8428 ERJ2GE0R00X
LB8429 ERJ2GE0R00X
LB8430 ERJ2GE0R00X
LB8423 ERJ2GE0R00X
LB8424 ERJ2GE0R00X
LB8491 ERJ2GE0R00X
FL8103 F1H0J1050022
FL8102 F1H0J1050022
L8550 G1C100KA0055
FL8101 F1H0J1050022
FL8104 F1J1E1040022
C8550 6V33
LB8691 ERJ2GEJ101X
LB8693 ERJ2GEJ101X
LB8692 ERJ2GEJ101X
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
R8325 160
R8321 160
R8341 82
R8335 82
R8331 160
R8326 10
R8322 10
R8332 10
CL8244
CL8242
C8255 0.1
C8252 16V47
R8251 6.8
C8256 0.1
C8253 16V22
E19
E20
E21
E22
C8242 0.1
C8241 0.1
C8262 0.1
C8261 0.1
R8263 82K
R8261 82K
LDCNT
MUTE3
TRIN
BIAS2
LDIN
VIN3
PREVCC
FIN
VCC (CH3,4)
BIAS1
VIN1
VIN2
OPIN+
OPIN-
OPOUT
GND(PRE)
FIN
VCC (CH1,2)
E23
C8254 0.1
R8262 4700
R8264 4700
R8265 0
E50
FP8201
SPM-
SPM+
TRVM-
TRVM+
DGND
TRV INNER SW
TO SPINDLE/ TRAVERSE MOTOR ASS'Y
A20
A21
A22
A23
E6
C8257 0.1
R8236 8200
C8238 820P
K8106 0
A15
K8421 0
R8420 2200
C8501 10
C8502 0.1
FP8501
T+
F+
F-
T-
HFM
TA(DVD)
TB(DVD)
TD(DVD)
TC(DVD)
FE2(DVD/CD)
FE1(DVD/CD)
GND
RF
VREF2(RF-)
PIN(DVD)
LDCD
LDGND
LDDVD
GND(OEIC)
VREF1
VCC
SUB2
SUB1
PIN(CD)
SUBSEL
GND(VRCD)
TO OPTICAL PICKUP UNIT
LB8514 ERJ3GEY0R00V
LB8513 ERJ3GEY0R00V
LB8512 ERJ3GEY0R00V
LB8511 ERJ3GEY0R00V
LB8507 J0JCC0000119
A24
A25
A26
A27
E1
RX8502 56X4
E7
E8
E9
E10
E24
QR8420 UNR521100L Muting Switch
RX8504 56X2
E11
E12
RX8501 56X2
E13
E14
R8506 1500
C8506 100P
LB8505 J0JCC0000119
LB8504 J0JCC0000119
LB8503 ERJ2GE0R00X
LB8502 J0JHC0000045
E2
E3
E4
E5
RX8503 56X2
R8505 2200
R8501 0
E17
E18
C8503 0.1
C8504 0.1
C8505 220P
R8550 7500
Q8550 2SB1219AHL Switch
R8560 1K
Q8560 2SD1819A0L Switch
R8570 100K
E51
G
F
E
D
C
B
A
1
2
3
4
5
6

) SIGNAL LINE ▨ :DVD(AUDIO) SIGNAL LINE

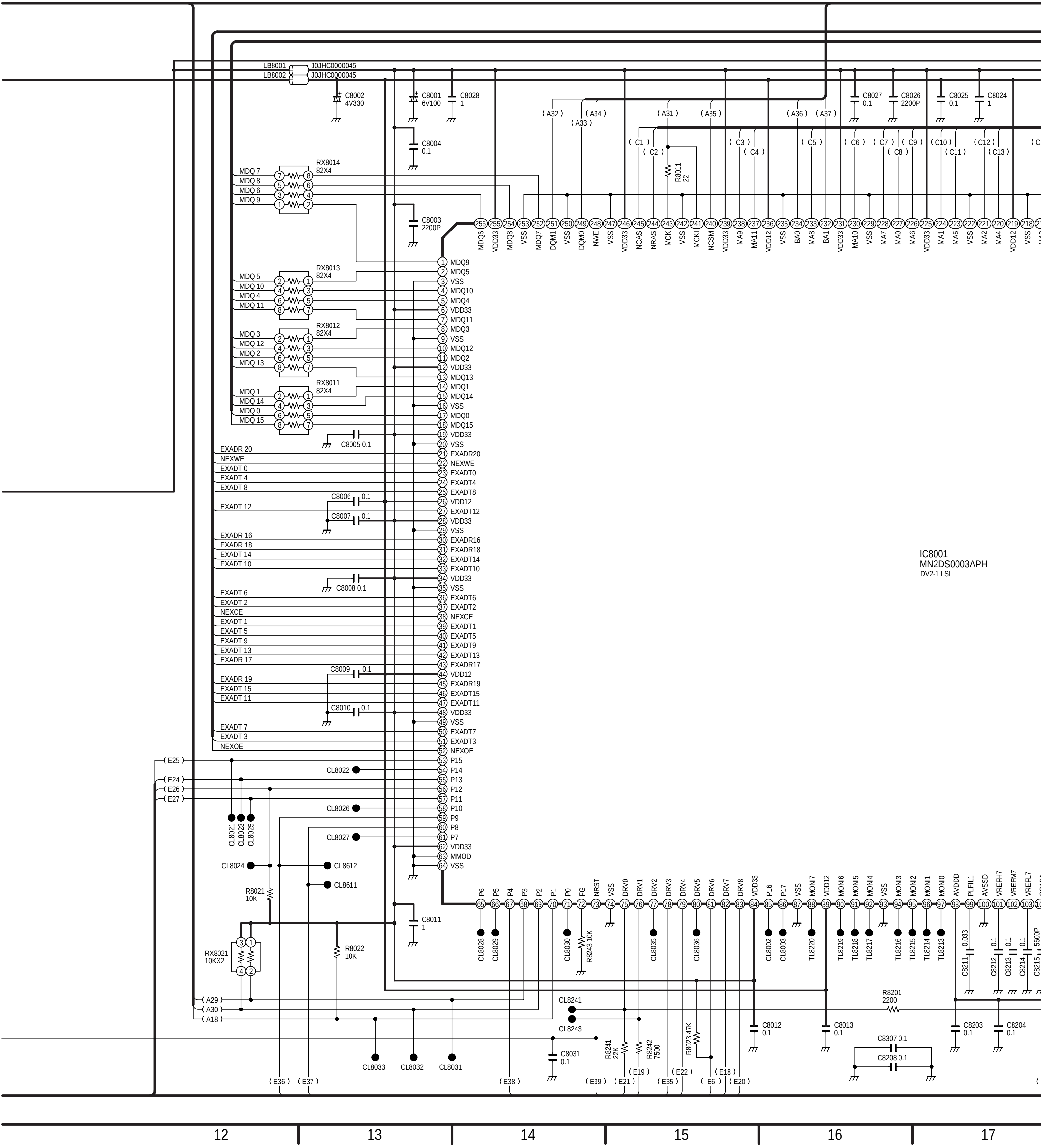

IC8251
C0GBG0000048
Motor Drive
LDIN
VIN3
PREVCC
FIN
VCC (CH3,4)
MUTE4
GND (CH3,4)
VO3-
VO3+
VO4-
VO4+
OPIN-
OPOUT
GND(PRE)
VCC (CH1,2)
MUTE12
GND (CH1,2)
VO2-
VO2+
VO1-
VO1+
R8251 6.8
C8253 16V22
C8251 6V220
R8264 4700
R8265 0
R8236 8200
C8238 820P
C8237 1000P
CL8236
CL8234
R8235 8200
C8236 1000P
C8235 1000P
CL8235
CL8231
LB8690 J0JCC0000091
C8691 0.1
C8695 0.1
C8111 0.1
IC8691
C0JBAA000346
AND GATE LOGIC IC
IC8695
C0JBAA000346
AND GATE LOGIC IC
VCC
GND
IC8111
C0CBCBD00018
Power Supply IC
VIN
NC
CONT
VO
GND
CN
R8112 22K
R8111 22K
QR8112
UNR521400L
Power Supply Control
QR8111
UNR521400L
Power Supply Control
C8113 470P
C8112 1
TL8111
IC8421
C0FBBK000050
8ch Audio D/A Converter
ZERO2
VOUT1
VOUT2
VCOM
AGND2
VCC2
VOUT3
VOUT4
VOUT5
VOUT6
AGND1
VCC1
VOUT7
VOUT8
ZERO1
MS
MC
MD
SCK
DATA1
BCK
LRCK
VDD
DGND
DATA2
DATA3
DATA4
MSEL
C8422 0.1
C8427 0.1
C8421 6V100
C8423 6V33
CL8430
C8426 0.1
CL8424
CL8425
CL8426
R8421 0
C8424 0.1
C8428 0.1
QR8571
UNR511V00L
Switch
CL8571
D8571 MA2J72800L
R8570 100K
R8569 12K
D8550 MA2J11100L
A6 A7 A8 A9 A10 A11 A12 A13 A14 A17 A19 A20 A21 A22 A23 A24 A25 A26 A27 A29 A30 A38 A39 A40 A41
E1 E25 E26 E27 E28 E29 E30 E31 E32 E33 E34 E35
6
7
8
9
10
11

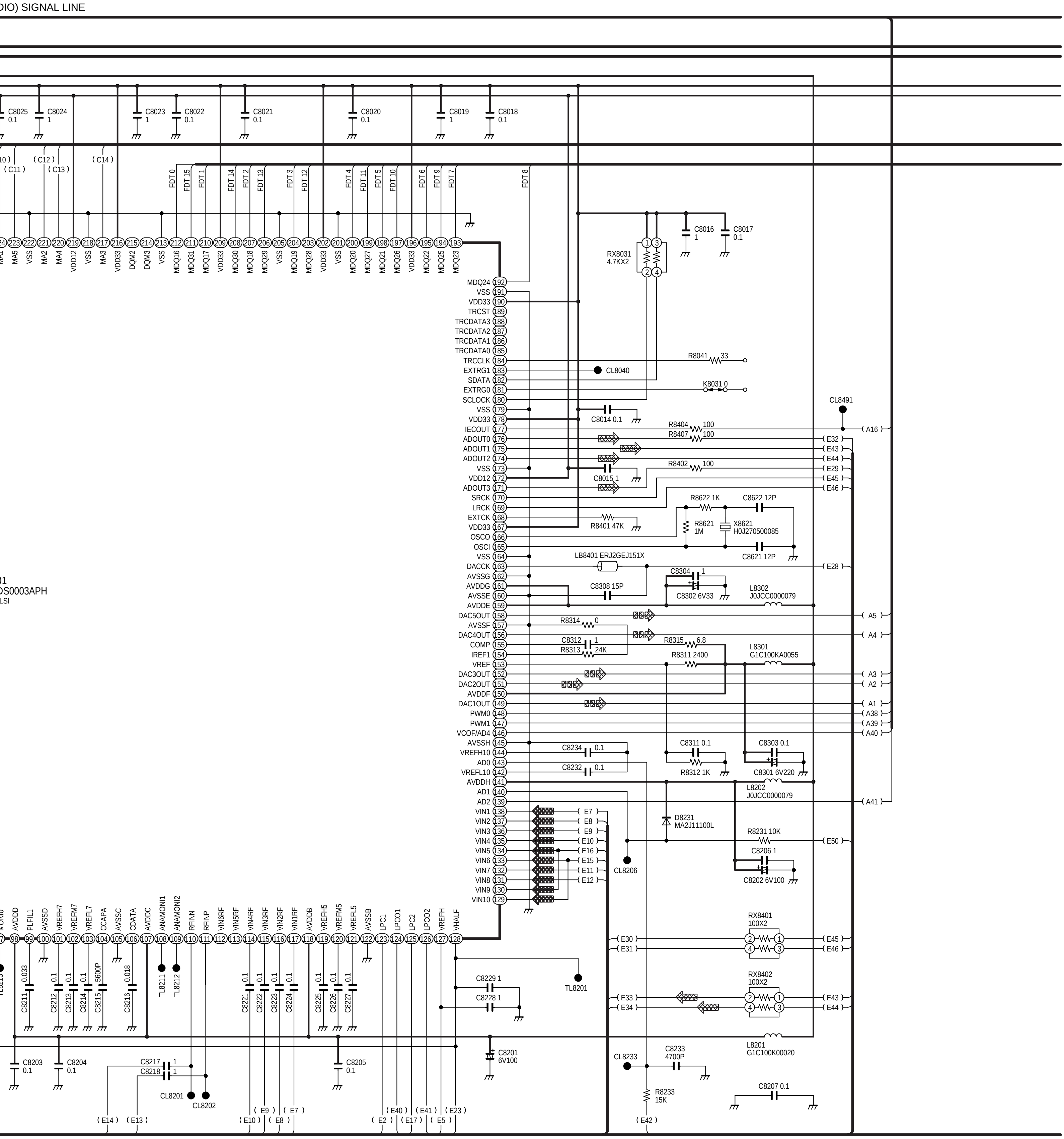
SA-HT840EB DVD MODULE CIRCUIT

SCHEMATIC DIAGRAM-2

A DVD MODULE CIRCUIT

:+B SIGNAL LINE :CD-DA SIGNAL LINE :DVD(VIDEO) SIGNAL LINE :DVD(AUDIO) SIGNAL LINE


IC8001
MN2DS0003APH
DV2-1 LSI
LB8001 J0JHC0000045
LB8002 J0JHC0000045
C8002 4V330
C8001 6V100
C8028 1
C8004 0.1
C8003 2200P
C8027 0.1
C8026 2200P
C8025 0.1
C8024 1
RX8014 82X4
RX8013 82X4
RX8012 82X4
RX8011 82X4
R8011 22
MDQ 7
MDQ 8
MDQ 6
MDQ 9
MDQ 5
MDQ 10
MDQ 4
MDQ 11
MDQ 3
MDQ 12
MDQ 2
MDQ 13
MDQ 1
MDQ 14
MDQ 0
MDQ 15
(A32)
(A33)
(A34)
(A31)
(A35)
(A36)
(A37)
(C1)
(C2)
(C3)
(C4)
(C5)
(C6)
(C7)
(C8)
(C9)
(C10)
(C11)
(C12)
(C13)
256 MDQ6
255 VDD33
254 MDQ8
253 VSS
252 MDQ7
251 DQM1
250 VSS
249 DQM0
248 NWE
247 VSS
246 VDD33
245 NCAS
244 NRAS
243 MCK
242 VSS
241 MCKI
240 NCSM
239 VDD33
238 MA9
237 MA11
236 VDD12
235 VSS
234 BA0
233 MA8
232 BA1
231 VDD33
230 MA10
229 VSS
228 MA7
227 MA0
226 MA6
225 VDD33
224 MA1
223 MA5
222 VSS
221 MA2
220 MA4
219 VDD12
218 VSS
1 MDQ9
2 MDQ5
3 VSS
4 MDQ10
5 MDQ4
6 VDD33
7 MDQ11
8 MDQ3
9 VSS
10 MDQ12
11 MDQ2
12 VDD33
13 MDQ13
14 MDQ1
15 MDQ14
16 VSS
17 MDQ0
18 MDQ15
19 VDD33
20 VSS
21 EXADR20
22 NEXWE
23 EXADT0
24 EXADT4
25 EXADT8
26 VDD12
27 EXADT12
28 VDD33
29 VSS
30 EXADR16
31 EXADR18
32 EXADT14
33 EXADT10
34 VDD33
35 VSS
36 EXADT6
37 EXADT2
38 NEXCE
39 EXADT1
40 EXADT5
41 EXADT9
42 EXADT13
43 EXADR17
44 VDD12
45 EXADR19
46 EXADT15
47 EXADT11
48 VDD33
49 VSS
50 EXADT7
51 EXADT3
52 NEXOE
53 P15
54 P14
55 P13
56 P12
57 P11
58 P10
59 P9
60 P8
61 P7
62 VDD33
63 MMOD
64 VSS
65 P6
66 P5
67 P4
68 P3
69 P2
70 P1
71 P0
72 FG
73 NRST
74 VSS
75 DRV0
76 DRV1
77 DRV2
78 DRV3
79 DRV4
80 DRV5
81 DRV6
82 DRV7
83 DRV8
84 VDD33
85 P16
86 P17
87 VSS
88 MONI7
89 VDD12
90 MONI6
91 MONI5
92 MONI4
93 VSS
94 MONI3
95 MONI2
96 MONI1
97 MONI0
98 AVDDD
99 PLFIL1
100 AVSSD
101 VREFH7
102 VREFM7
103 VREFL7
EXADR 20
NEXWE
EXADT 0
EXADT 4
EXADT 8
EXADT 12
EXADR 16
EXADR 18
EXADT 14
EXADT 10
EXADT 6
EXADT 2
NEXCE
EXADT 1
EXADT 5
EXADT 9
EXADT 13
EXADR 17
EXADR 19
EXADT 15
EXADT 11
EXADT 7
EXADT 3
NEXOE
C8005 0.1
C8006 0.1
C8007 0.1
C8008 0.1
C8009 0.1
C8010 0.1
C8011 1
(E25)
(E24)
(E26)
(E27)
CL8022
CL8026
CL8027
CL8021
CL8023
CL8025
CL8024
CL8612
CL8611
R8021 10K
RX8021 10KX2
R8022 10K
(A29)
(A30)
(A18)
CL8033
CL8032
CL8031
CL8028
CL8029
CL8030
R8243 10K
CL8035
CL8036
CL8002
CL8003
TL8220
TL8219
TL8218
TL8217
TL8216
TL8215
TL8214
TL8213
C8211 0.033
C8212 0.1
C8213 0.1
C8214 0.1
C8215 5600P
CL8241
CL8243
C8031 0.1
R8241 22K
R8242 7500
R8023 47K
C8012 0.1
C8013 0.1
R8201 2200
C8203 0.1
C8204 0.1
C8307 0.1
C8208 0.1
(E36)
(E37)
(E38)
(E39)
(E21)
(E19)
(E35)
(E22)
(E6)
(E18)
(E20)
12
13
14
15
16
17

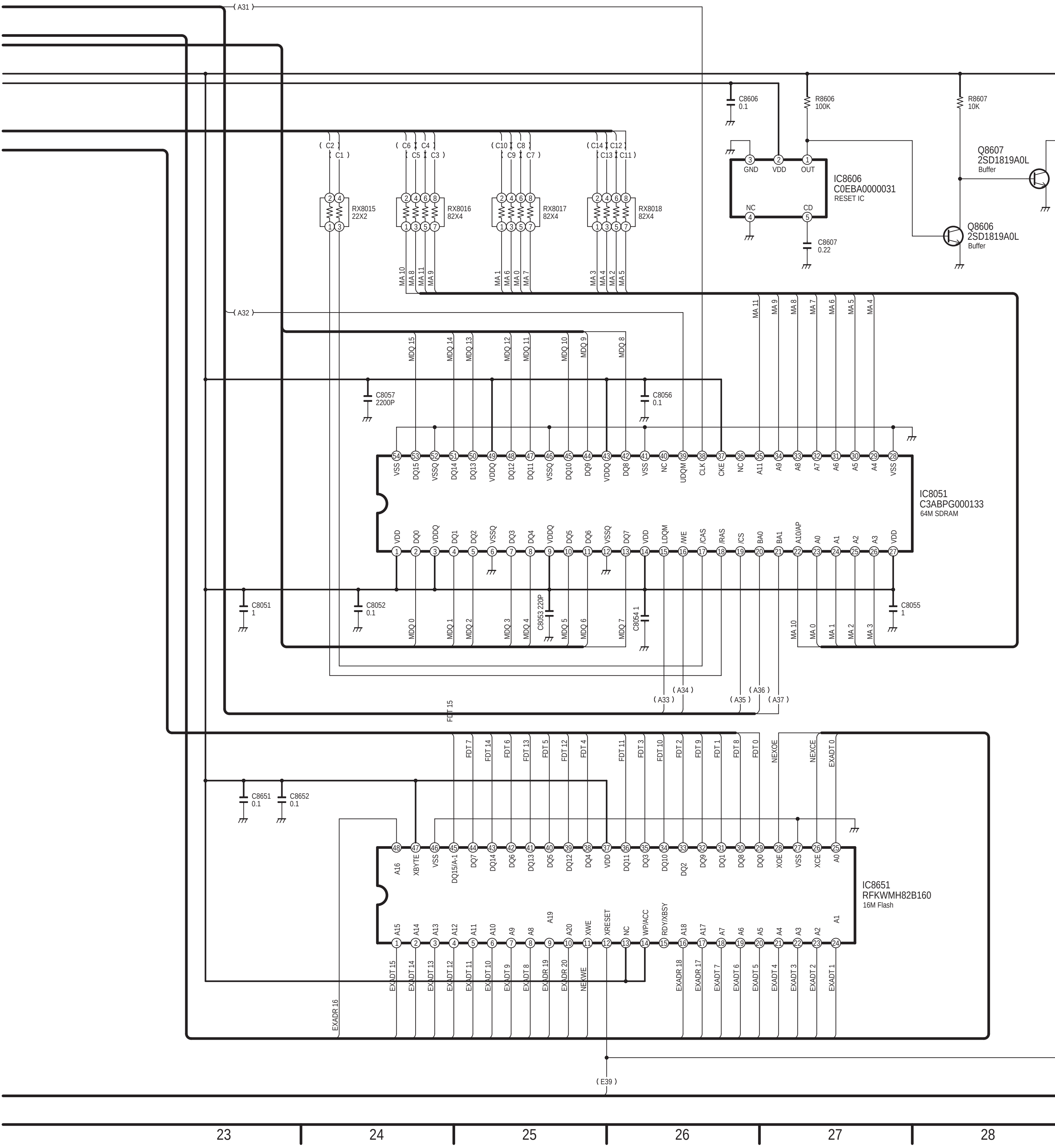

DIO) SIGNAL LINE
C8025 0.1
C8024 1
C8023 1
C8022 0.1
C8021 0.1
C8020 0.1
C8019 1
C8018 0.1
(C11)
(C12)
(C13)
(C14)
FDT 0
FDT 15
FDT 1
FDT 14
FDT 2
FDT 13
FDT 3
FDT 12
FDT 4
FDT 11
FDT 5
FDT 10
FDT 6
FDT 9
FDT 7
FDT 8
MA1 MA5 VSS MA2 MA4 VDD12 VSS MA3 VDD33 DQM2 DQM3 VSS MDQ16 MDQ31 MDQ17 VDD33 MDQ30 MDQ18 MDQ29 VSS MDQ19 MDQ28 VDD33 VSS MDQ20 MDQ27 MDQ21 MDQ26 VDD33 MDQ22 MDQ25 MDQ23
C8016 1
C8017 0.1
RX8031 4.7KX2
MDQ24 192
VSS 191
VDD33 190
TRCST 189
TRCDATA3 188
TRCDATA2 187
TRCDATA1 186
TRCDATA0 185
TRCCLK 184
EXTRG1 183
SDATA 182
EXTRG0 181
SCLOCK 180
VSS 179
VDD33 178
IECOUT 177
ADOUT0 176
ADOUT1 175
ADOUT2 174
VSS 173
VDD12 172
ADOUT3 171
SRCK 170
LRCK 169
EXTCK 168
VDD33 167
OSCO 166
OSCI 165
VSS 164
DACCK 163
AVSSG 162
AVDDG 161
AVSSE 160
AVDDE 159
DAC5OUT 158
AVSSF 157
DAC4OUT 156
COMP 155
IREF1 154
VREF 153
DAC3OUT 152
DAC2OUT 151
AVDDF 150
DAC1OUT 149
PWM0 148
PWM1 147
VCOF/AD4 146
AVSSH 145
VREFH10 144
AD0 143
VREFL10 142
AVDDH 141
AD1 140
AD2 139
VIN1 138
VIN2 137
VIN3 136
VIN4 135
VIN5 134
VIN6 133
VIN7 132
VIN8 131
VIN9 130
VIN10 129
R8041 33
CL8040
K8031 0
CL8491
C8014 0.1
R8404 100
R8407 100
R8402 100
C8015 1
A16
E32
E43
E44
E29
E45
E46
R8622 1K
C8622 12P
R8621 1M
X8621 H0J270500085
R8401 47K
C8621 12P
LB8401 ERJ2GEJ151X
E28
C8304 1
C8308 15P
C8302 6V33
L8302 J0JCC0000079
A5
R8314 0
A4
C8312 1
R8313 24K
R8315 6.8
R8311 2400
L8301 G1C100KA0055
A3
A2
A1
A38
A39
A40
C8234 0.1
C8232 0.1
C8311 0.1
R8312 1K
C8303 0.1
C8301 6V220
L8202 J0JCC0000079
A41
D8231 MA2J11100L
R8231 10K
E50
C8206 1
C8202 6V100
CL8206
E7 E8 E9 E10 E16 E15 E11 E12
01
DS0003APH
LSI
MONI0 AVDDD PLFIL1 AVSSD VREFH7 VREFM7 VREFL7 CCAPA AVSSC CDATA AVDDC ANAMONI1 ANAMONI2 RFINN RFINP VIN6RF VIN5RF VIN4RF VIN3RF VIN2RF VIN1RF AVDDB VREFH5 VREFM5 VREFL5 AVSSB LPC1 LPCO1 LPC2 LPCO2 VREFH VHALF
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128
C8211 0.033
C8212 0.1
C8213 0.1
C8214 0.1
C8215 5600P
C8216 0.018
TL8211
TL8212
TL8213
C8221 0.1
C8222 0.1
C8223 0.1
C8224 0.1
C8225 0.1
C8226 0.1
C8227 0.1
C8229 1
C8228 1
TL8201
RX8401 100X2
E30 E31 E45 E46
RX8402 100X2
E33 E34 E43 E44
C8203 0.1
C8204 0.1
C8217 1
C8218 1
CL8201
CL8202
C8205 0.1
C8201 6V100
CL8233
C8233 4700P
R8233 15K
L8201 G1C100K00020
C8207 0.1
E14 E13 E10 E9 E8 E7 E2 E40 E17 E41 E5 E23 E42

SA-HT840EB DVD MODULE CIRCUIT

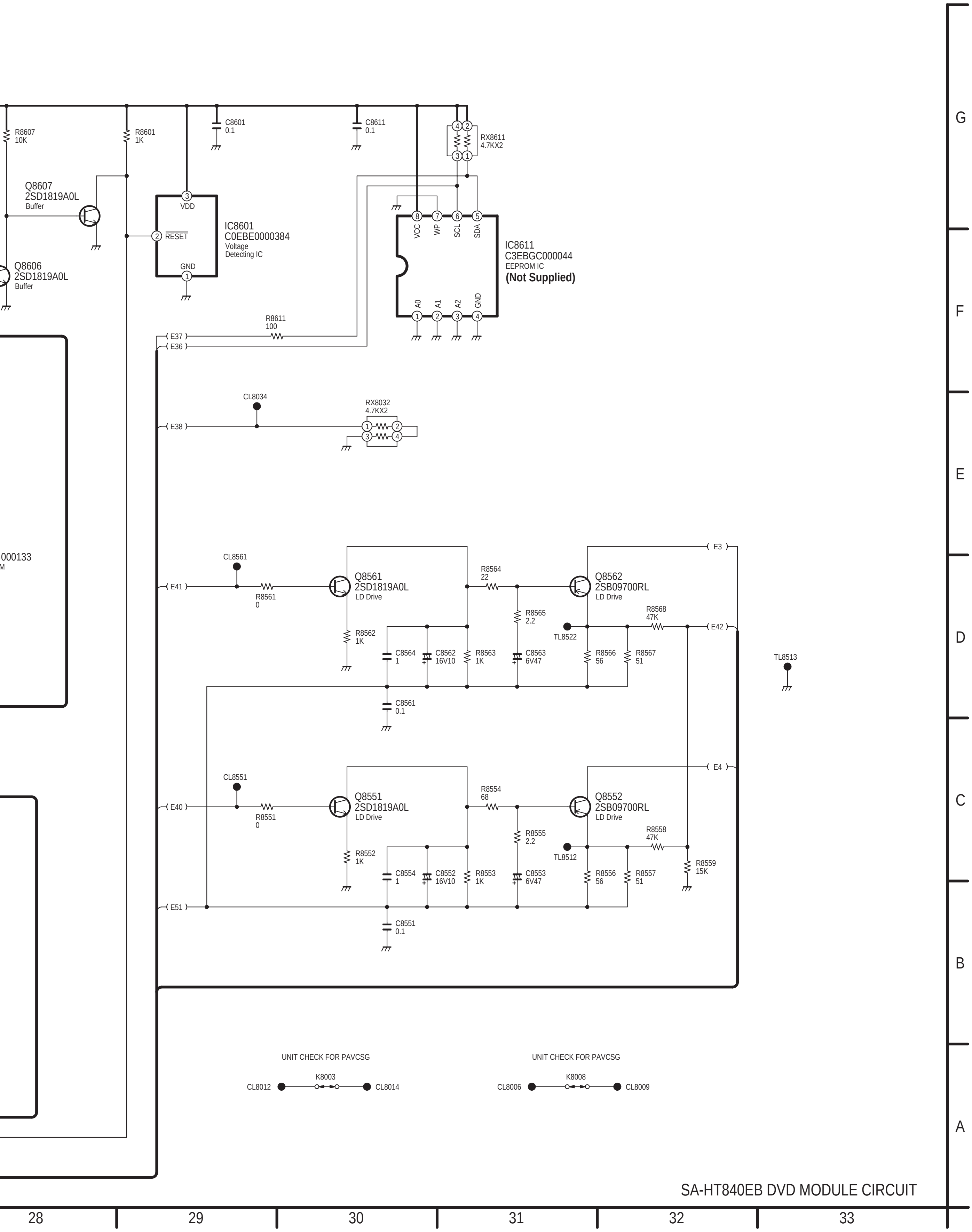
17 18 19 20 21 22

SCHEMATIC DIAGRAM-3

A DVD MODULE CIRCUIT



A31
A32
A33
A34
A35
A36
A37
E39
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
RX8015 22X2
RX8016 82X4
RX8017 82X4
RX8018 82X4
MA 10
MA 8
MA 11
MA 9
MA 1
MA 6
MA 0
MA 7
MA 3
MA 4
MA 2
MA 5
C8606 0.1
R8606 100K
R8607 10K
IC8606
C0EBA0000031
RESET IC
GND
VDD
OUT
NC
CD
C8607 0.22
Q8607
2SD1819A0L
Buffer
Q8606
2SD1819A0L
Buffer
MDQ 15
MDQ 14
MDQ 13
MDQ 12
MDQ 11
MDQ 10
MDQ 9
MDQ 8
C8057 2200P
C8056 0.1
IC8051
C3ABPG000133
64M SDRAM
VSS
DQ15
VSSQ
DQ14
DQ13
VDDQ
DQ12
DQ11
VSSQ
DQ10
DQ9
VDDQ
DQ8
VSS
NC
UDQM
CLK
CKE
NC
A11
A9
A8
A7
A6
A5
A4
VSS
VDD
DQ0
VDDQ
DQ1
DQ2
VSSQ
DQ3
DQ4
VDDQ
DQ5
DQ6
VSSQ
DQ7
VDD
LDQM
/WE
/CAS
/RAS
/CS
BA0
BA1
A10/AP
A0
A1
A2
A3
VDD
C8051 1
C8052 0.1
C8053 220P
C8054 1
C8055 1
MDQ 0
MDQ 1
MDQ 2
MDQ 3
MDQ 4
MDQ 5
MDQ 6
MDQ 7
MA 10
MA 0
MA 1
MA 2
MA 3
FDT 15
FDT 7
FDT 14
FDT 6
FDT 13
FDT 5
FDT 12
FDT 4
FDT 11
FDT 3
FDT 10
FDT 2
FDT 9
FDT 1
FDT 8
FDT 0
NEXOE
NEXCE
EXADT 0
C8651 0.1
C8652 0.1
IC8651
RFKWMH82B160
16M Flash
A16
XBYTE
VSS
DQ15/A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
VDD
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
XOE
VSS
XCE
A0
A15
A14
A13
A12
A11
A10
A9
A8
A19
A20
XWE
XRESET
NC
WP/ACC
RDY/XBSY
A18
A17
A7
A6
A5
A4
A3
A2
A1
EXADT 15
EXADT 14
EXADT 13
EXADT 12
EXADT 11
EXADT 10
EXADT 9
EXADT 8
EXADR 19
EXADR 20
NEXWE
EXADR 18
EXADR 17
EXADT 7
EXADT 6
EXADT 5
EXADT 4
EXADT 3
EXADT 2
EXADT 1
EXADR 16
23
24
25
26
27
28

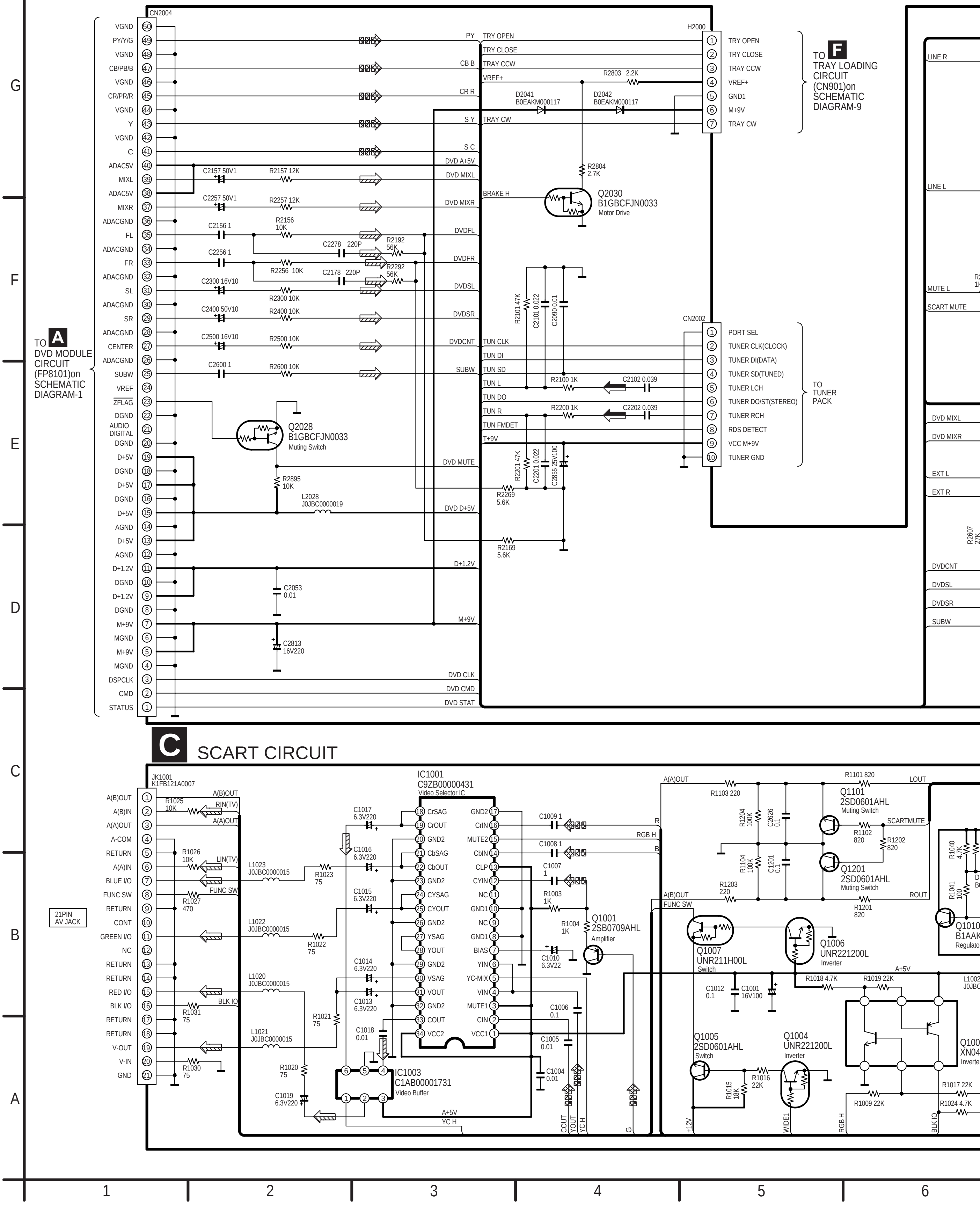

R8607
10K
R8601
1K
C8601
0.1
C8611
0.1
RX8611
4.7KX2
Q8607
2SD1819A0L
Buffer
VDD
RESET
GND
IC8601
C0EBE0000384
Voltage
Detecting IC
Q8606
2SD1819A0L
Buffer
VCC
WP
SCL
SDA
A0
A1
A2
GND
IC8611
C3EBGC000044
EEPROM IC
(Not Supplied)
R8611
100
E37
E36
CL8034
RX8032
4.7KX2
E38
000133
M
CL8561
E41
R8561
0
Q8561
2SD1819A0L
LD Drive
R8562
1K
C8564
1
C8562
16V10
R8563
1K
R8564
22
R8565
2.2
C8563
6V47
Q8562
2SB09700RL
LD Drive
TL8522
R8566
56
R8567
51
R8568
47K
E3
E42
TL8513
C8561
0.1
CL8551
E40
R8551
0
Q8551
2SD1819A0L
LD Drive
R8552
1K
C8554
1
C8552
16V10
R8553
1K
R8554
68
R8555
2.2
C8553
6V47
Q8552
2SB09700RL
LD Drive
TL8512
R8556
56
R8557
51
R8558
47K
R8559
15K
E4
E51
C8551
0.1
UNIT CHECK FOR PAVCSG
CL8012
K8003
CL8014
UNIT CHECK FOR PAVCSG
CL8006
K8008
CL8009
G
F
E
D
C
B
A
28
29
30
31
32
33

SA-HT840EB DVD MODULE CIRCUIT

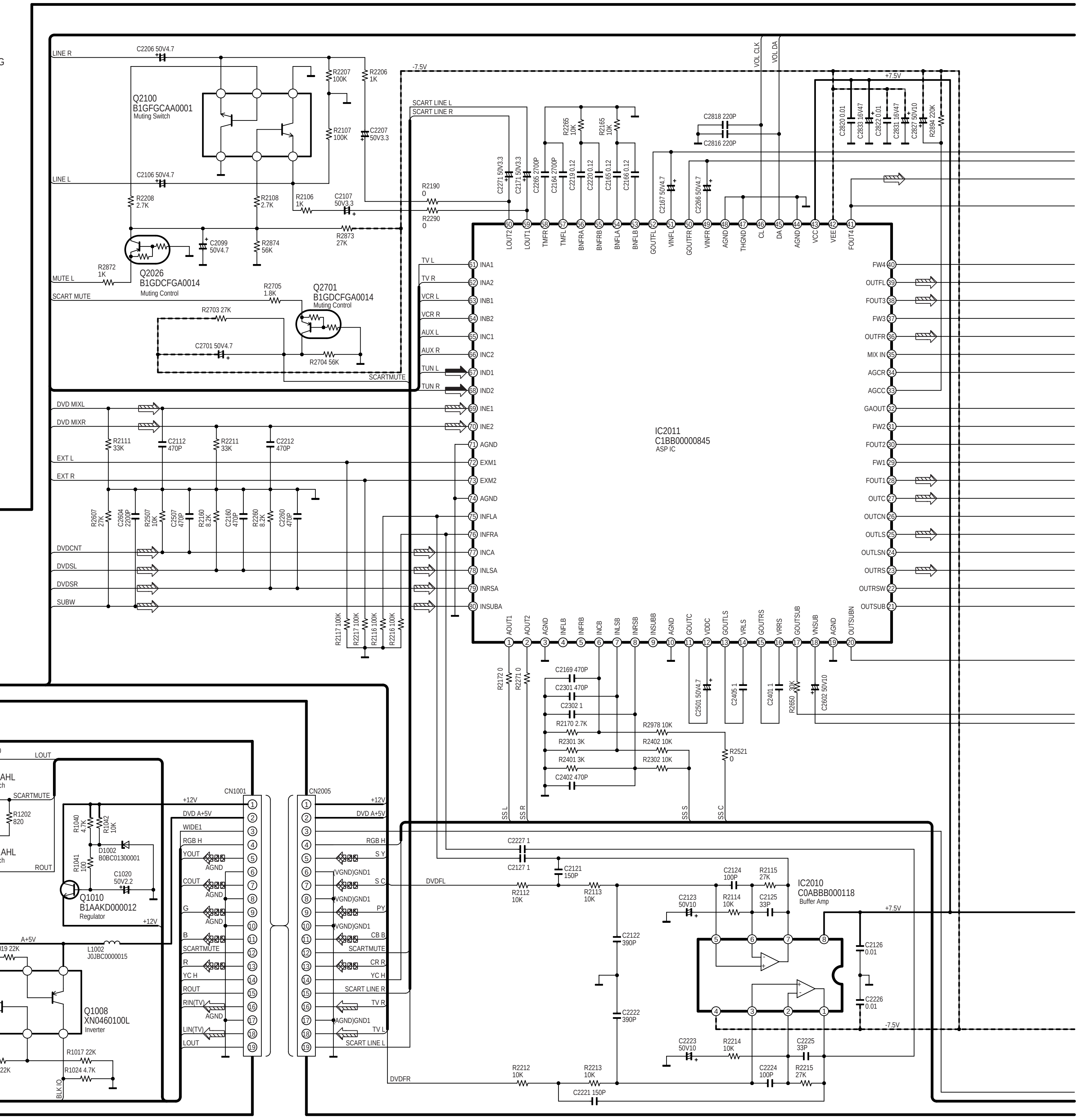
SCHEMATIC DIAGRAM-4

B MAIN CIRCUIT

—— :+B SIGNAL LINE   - - - :-B SIGNAL LINE   ⇨ :MAIN SIGNAL LINE   ⇨ :DVD(VIDEO) SIGNAL LINE


G
F
E
D
C
B
A
1
2
3
4
5
6
CN2004
VGND
PY/Y/G
CB/PB/B
CR/PR/R
Y
C
ADAC5V
MIXL
MIXR
ADACGND
FL
FR
SL
SR
CENTER
SUBW
VREF
ZFLAG
DGND
AUDIO DIGITAL
D+5V
AGND
D+1.2V
M+9V
MGND
DSPCLK
CMD
STATUS
TO A DVD MODULE CIRCUIT (FP8101)on SCHEMATIC DIAGRAM-1
PY
CB B
CR R
S Y
S C
DVD A+5V
DVD MIXL
DVD MIXR
DVDFL
DVDFR
DVDSL
DVDSR
DVDCNT
SUBW
DVD MUTE
DVD D+5V
D+1.2V
M+9V
DVD CLK
DVD CMD
DVD STAT
C2157 50V1
R2157 12K
C2257 50V1
R2257 12K
C2156 1
R2156 10K
C2256 1
R2256 10K
C2278 220P
C2178 220P
R2192 56K
R2292 56K
C2300 16V10
R2300 10K
C2400 50V10
R2400 10K
C2500 16V10
R2500 10K
C2600 1
R2600 10K
Q2028 B1GBCFJN0033 Muting Switch
R2895 10K
L2028 J0JBC0000019
C2053 0.01
C2813 16V220
TRY OPEN
TRY CLOSE
TRAY CCW
VREF+
TRAY CW
BRAKE H
H2000
R2803 2.2K
D2041 B0EAKM000117
D2042 B0EAKM000117
R2804 2.7K
Q2030 B1GBCFJN0033 Motor Drive
TRY OPEN
TRY CLOSE
TRAY CCW
VREF+
GND1
M+9V
TRAY CW
TO F TRAY LOADING CIRCUIT (CN901)on SCHEMATIC DIAGRAM-9
R2101 47K
C2101 0.022
C2090 0.01
TUN CLK
TUN DI
TUN SD
TUN L
TUN DO
TUN R
TUN FMDET
T+9V
R2100 1K
C2102 0.039
R2200 1K
C2202 0.039
R2201 47K
C2201 0.022
C2855 25V100
R2269 5.6K
R2169 5.6K
CN2002
PORT SEL
TUNER CLK(CLOCK)
TUNER DI(DATA)
TUNER SD(TUNED)
TUNER LCH
TUNER DO/ST(STEREO)
TUNER RCH
RDS DETECT
VCC M+9V
TUNER GND
TO TUNER PACK
LINE R
LINE L
MUTE L
SCART MUTE
DVD MIXL
DVD MIXR
EXT L
EXT R
R2607 27K
DVDCNT
DVDSL
DVDSR
SUBW
C SCART CIRCUIT
JK1001 K1FB121A0007
21PIN AV JACK
A(B)OUT
A(B)IN
A(A)OUT
A-COM
RETURN
A(A)IN
BLUE I/O
FUNC SW
CONT
GREEN I/O
NC
RED I/O
BLK I/O
V-OUT
V-IN
GND
R1025 10K
RIN(TV)
R1026 10K
LIN(TV)
R1027 470
R1031 75
R1030 75
L1023 J0JBC0000015
L1022 J0JBC0000015
L1020 J0JBC0000015
L1021 J0JBC0000015
R1023 75
R1022 75
R1021 75
R1020 75
C1017 6.3V220
C1016 6.3V220
C1015 6.3V220
C1014 6.3V220
C1013 6.3V220
C1018 0.01
C1019 6.3V220
IC1001 C9ZB00000431 Video Selector IC
CrSAG
CrOUT
GND2
CbSAG
CbOUT
CYSAG
CYOUT
YSAG
YOUT
VSAG
VOUT
COUT
VCC2
MUTE2
CbIN
CLP
CYIN
GND1
BIAS
YIN
YC-MIX
VIN
MUTE1
CIN
VCC1
IC1003 C1AB00001731 Video Buffer
A+5V
YC H
C1009 1
C1008 1
C1007 1
R1003 1K
R1004 1K
Q1001 2SB0709AHL Amplifier
C1010 6.3V22
C1006 0.1
C1005 0.01
C1004 0.01
COUT
YOUT
YC H
G
R
RGB H
B
A(A)OUT
A(B)OUT
FUNC SW
R1103 220
R1101 820
LOUT
R1204 100K
C2626 0.1
Q1101 2SD0601AHL Muting Switch
SCARTMUTE
R1102 820
R1202 820
R1104 100K
C1201 0.1
Q1201 2SD0601AHL Muting Switch
R1203 220
R1201 820
ROUT
Q1007 UNR211H00L Switch
Q1006 UNR221200L Inverter
A+5V
C1012 0.1
C1001 16V100
R1018 4.7K
R1019 22K
Q1005 2SD0601AHL Switch
Q1004 UNR221200L Inverter
R1015 18K
R1016 22K
R1009 22K
R1017 22K
R1024 4.7K
+12V
WIDE1
RGB H
BLK I/O
R1040 4.7K
R1041 100
Q1010 B1AAK Regulato
L1002 J0JBC
Q100 XN04 Inverte

IGNAL LINE ⇨ :FM/AM SIGNAL LINE


LINE R
C2206 50V4.7
R2207 100K
R2206 1K
-7.5V
Q2100
B1GFGCAA0001
Muting Switch
R2107 100K
C2207 50V3.3
LINE L
C2106 50V4.7
R2208 2.7K
R2108 2.7K
R2106 1K
C2107 50V3.3
R2873 27K
C2099 50V4.7
R2874 56K
R2872 1K
MUTE L
Q2026
B1GDCFGA0014
Muting Control
SCART MUTE
R2705 1.8K
Q2701
B1GDCFGA0014
Muting Control
R2703 27K
C2701 50V4.7
R2704 56K
SCARTMUTE
SCART LINE L
SCART LINE R
R2190 0
R2290 0
C2271 50V3.3
C2171 50V3.3
C2265 2700P
C2164 2700P
R2265 10K
R2165 10K
C2219 0.12
C2220 0.12
C2165 0.12
C2166 0.12
C2167 50V4.7
C2266 50V4.7
VOL CLK
VOL DA
C2818 220P
C2816 220P
+7.5V
C2820 0.01
C2833 16V47
C2822 0.01
C2831 16V47
C2827 50V10
R2894 220K
TV L
TV R
VCR L
VCR R
AUX L
AUX R
TUN L
TUN R
DVD MIXL
DVD MIXR
R2111 33K
C2112 470P
R2211 33K
C2212 470P
EXT L
EXT R
R2607 27K
C2604 2200P
R2507 10K
C2507 470P
R2160 8.2K
C2160 470P
R2260 8.2K
C2260 470P
DVDCNT
DVDSL
DVDSR
SUBW
R2117 100K
R2217 100K
R2116 100K
R2216 100K
IC2011
C1BB00000845
ASP IC
LOUT2
LOUT1
TMFR
TMFL
BNFRA
BNFRB
BNFLA
BNFLB
GOUTFL
VINFL
GOUTFR
VINFR
AGND
THGND
CL
DA
VCC
VEE
FOUT4
INA1
INA2
INB1
INB2
INC1
INC2
IND1
IND2
INE1
INE2
EXM1
EXM2
INFLA
INFRA
INCA
INLSA
INRSA
INSUBA
FW4
OUTFL
FOUT3
FW3
OUTFR
MIX IN
AGCR
AGCC
GAOUT
FW2
FOUT2
FW1
FOUT1
OUTC
OUTCN
OUTLS
OUTLSN
OUTRS
OUTRSW
OUTSUB
AOUT1
AOUT2
INFLB
INFRB
INCB
INLSB
INRSB
INSUBB
GOUTC
VDDC
GOUTLS
VRLS
GOUTRS
VRRS
GOUTSUB
VNSUB
OUTSUBN
R2172 0
R2271 0
C2169 470P
C2301 470P
C2302 1
R2170 2.7K
R2301 3K
R2401 3K
C2402 470P
R2978 10K
R2402 10K
R2302 10K
R2521 0
C2501 50V4.7
C2405 1
C2401 1
R2650 39K
C2602 50V10
SS L
SS R
SS S
SS C
LOUT
AHL
SCARTMUTE
R1202 820
ROUT
R1040 4.7K
R1042 10K
R1041 100
D1002
B0BC01300001
C1020 50V2.2
Q1010
B1AAKD000012
Regulator
+12V
A+5V
L1002
J0JBC0000015
Q1008
XN0460100L
Inverter
R1017 22K
R1024 4.7K
BLK IO
CN1001
DVD A+5V
WIDE1
RGB H
YOUT
AGND
COUT
G
B
R
YC H
RIN(TV)
LIN(TV)
CN2005
S Y
(VGND)GND1
S C
PY
CB B
CR R
SCART LINE R
TV R
(AGND)GND1
TV L
SCART LINE L
C2227 1
C2127 1
C2121 150P
DVDFL
R2112 10K
R2113 10K
C2122 390P
C2222 390P
C2124 100P
R2115 27K
C2123 50V10
R2114 10K
C2125 33P
IC2010
C0ABBB000118
Buffer Amp
C2126 0.01
C2226 0.01
C2223 50V10
R2214 10K
C2225 33P
C2224 100P
R2215 27K
DVDFR
R2212 10K
R2213 10K
C2221 150P

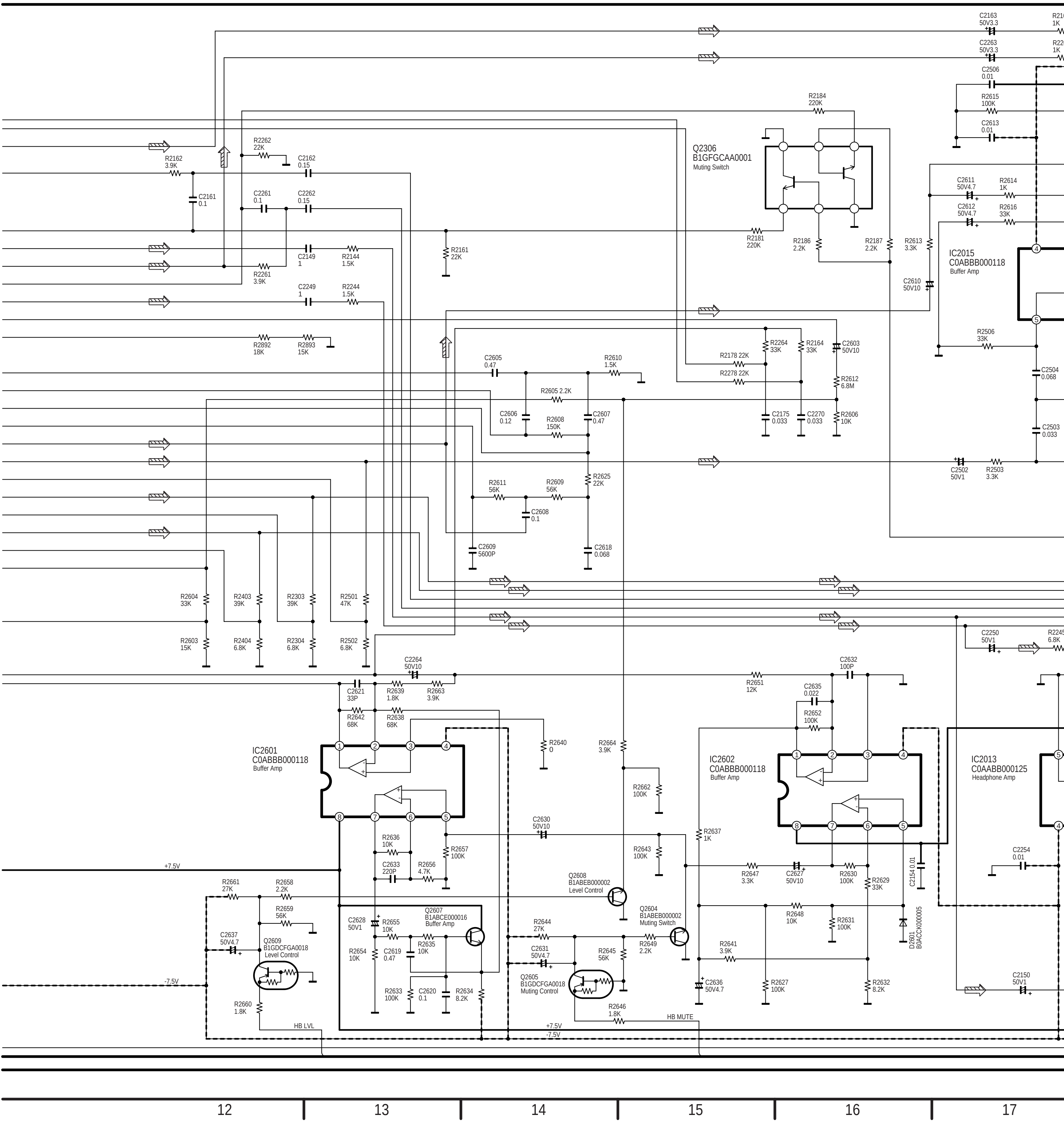
SA-HT840EB MAIN CIRCUIT

6 7 8 9 10 11

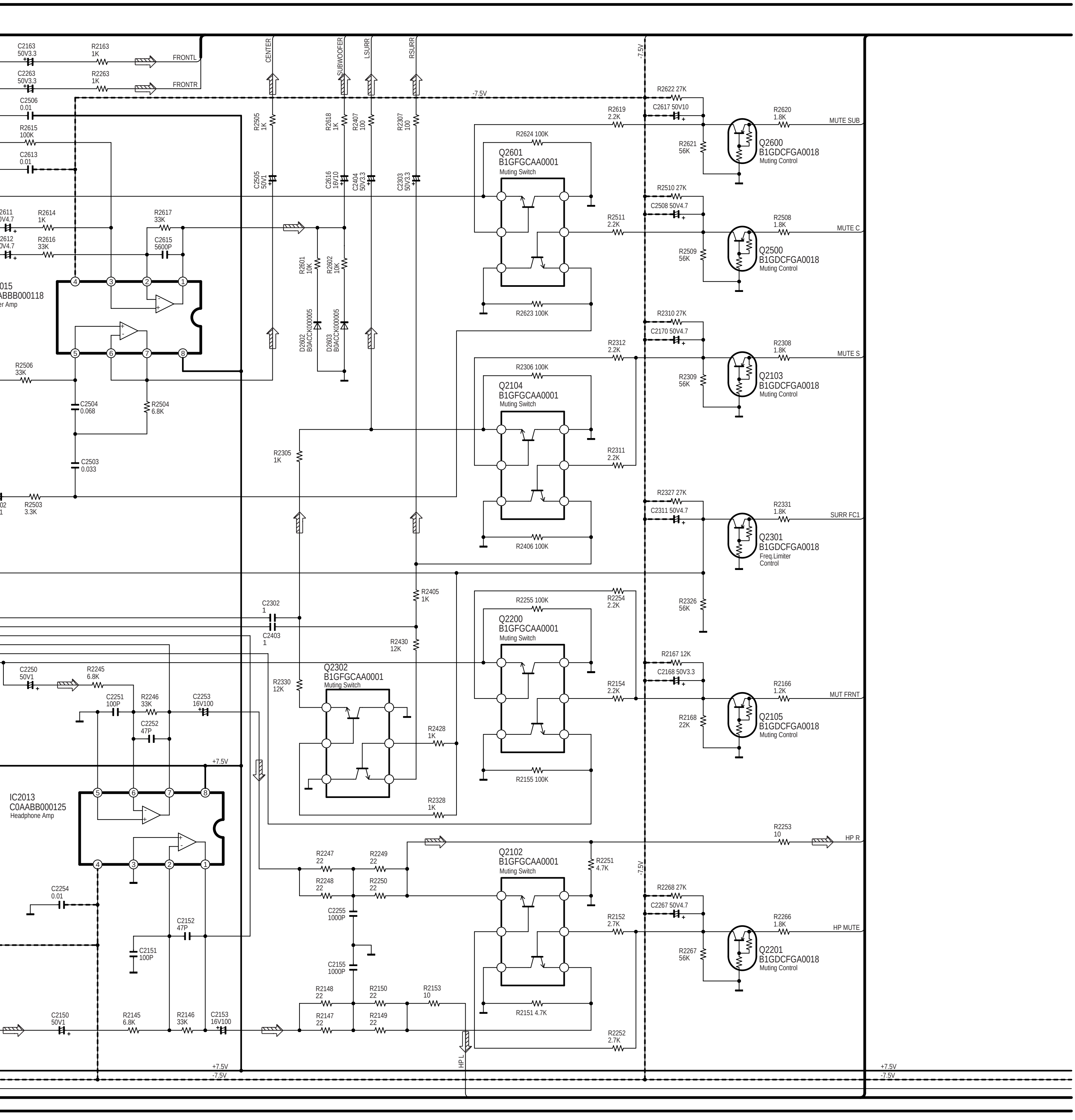
SCHEMATIC DIAGRAM-5

B MAIN CIRCUIT

—— :+B SIGNAL LINE - - - :-B SIGNAL LINE ⇨ :MAIN SIGNAL LINE



C2163 50V3.3
C2263 50V3.3
C2506 0.01
R2615 100K
C2613 0.01
R2184 220K
Q2306
B1GFGCAA0001
Muting Switch
R2262 22K
C2162 0.15
R2162 3.9K
C2161 0.1
C2261 0.1
C2262 0.15
C2611 50V4.7
R2614 1K
C2612 50V4.7
R2616 33K
R2181 220K
R2186 2.2K
R2187 2.2K
R2613 3.3K
IC2015
C0ABBB000118
Buffer Amp
R2161 22K
C2149 1
R2144 1.5K
R2261 3.9K
C2249 1
R2244 1.5K
C2610 50V10
R2264 33K
R2164 33K
C2603 50V10
R2506 33K
R2892 18K
R2893 15K
C2605 0.47
R2610 1.5K
R2178 22K
R2278 22K
R2612 6.8M
C2504 0.068
R2605 2.2K
C2606 0.12
R2608 150K
C2607 0.47
C2175 0.033
C2270 0.033
R2606 10K
C2503 0.033
C2502 50V1
R2503 3.3K
R2611 56K
R2609 56K
R2625 22K
C2608 0.1
C2609 5600P
C2618 0.068
R2604 33K
R2403 39K
R2303 39K
R2501 47K
R2603 15K
R2404 6.8K
R2304 6.8K
R2502 6.8K
C2250 50V1
R2245 6.8K
C2264 50V10
C2632 100P
C2621 33P
R2639 1.8K
R2663 3.9K
R2651 12K
C2635 0.022
R2642 68K
R2638 68K
R2652 100K
R2640 0
R2664 3.9K
IC2601
C0ABBB000118
Buffer Amp
IC2602
C0ABBB000118
Buffer Amp
IC2013
C0AABB000125
Headphone Amp
R2662 100K
R2636 10K
R2657 100K
C2630 50V10
R2637 1K
R2643 100K
+7.5V
C2633 220P
R2656 4.7K
Q2608
B1ABEB000002
Level Control
R2647 3.3K
C2627 50V10
R2630 100K
R2629 33K
C2154 0.01
C2254 0.01
R2661 27K
R2658 2.2K
R2659 56K
C2628 50V1
R2655 10K
Q2607
B1ABCE000016
Buffer Amp
Q2604
B1ABEB000002
Muting Switch
R2648 10K
R2631 100K
D2601
B0ACCK000005
C2637 50V4.7
Q2609
B1GDCFGA0018
Level Control
R2644 27K
R2635 10K
R2654 10K
C2619 0.47
C2631 50V4.7
R2649 2.2K
R2645 56K
R2641 3.9K
-7.5V
Q2605
B1GDCFGA0018
Muting Control
C2636 50V4.7
R2627 100K
R2632 8.2K
C2150 50V1
R2633 100K
C2620 0.1
R2634 8.2K
R2660 1.8K
R2646 1.8K
HB LVL
HB MUTE
+7.5V
-7.5V
12
13
14
15
16
17


C2163 50V3.3
R2163 1K
FRONTL
C2263 50V3.3
R2263 1K
FRONTR
C2506 0.01
R2615 100K
C2613 0.01
R2614 1K
R2616 33K
R2617 33K
C2615 5600P
IC2015
C0ABBB000118
R2506 33K
C2504 0.068
R2504 6.8K
C2503 0.033
R2503 3.3K
CENTER
SUBWOOFER
LSURR
RSURR
-7.5V
R2505 1K
R2618 1K
R2407 100
R2307 100
C2505 50V1
C2616 16V10
C2404 50V3.3
C2303 50V3.3
R2601 10K
R2602 10K
D2602 B0ACCK000005
D2603 B0ACCK000005
R2305 1K
R2622 27K
R2619 2.2K
C2617 50V10
R2620 1.8K
MUTE SUB
R2621 56K
Q2600
B1GDCFGA0018
Muting Control
R2624 100K
Q2601
B1GFGCAA0001
Muting Switch
R2623 100K
R2510 27K
C2508 50V4.7
R2511 2.2K
R2508 1.8K
MUTE C
R2509 56K
Q2500
B1GDCFGA0018
Muting Control
R2310 27K
C2170 50V4.7
R2312 2.2K
R2308 1.8K
MUTE S
R2309 56K
Q2103
B1GDCFGA0018
Muting Control
R2306 100K
Q2104
B1GFGCAA0001
Muting Switch
R2311 2.2K
R2406 100K
R2327 27K
C2311 50V4.7
R2331 1.8K
SURR FC1
Q2301
B1GDCFGA0018
Freq.Limiter Control
R2326 56K
R2405 1K
C2302 1
C2403 1
R2430 12K
R2330 12K
Q2302
B1GFGCAA0001
Muting Switch
R2428 1K
R2328 1K
R2255 100K
R2254 2.2K
Q2200
B1GFGCAA0001
Muting Switch
R2154 2.2K
R2155 100K
R2167 12K
C2168 50V3.3
R2166 1.2K
MUT FRNT
R2168 22K
Q2105
B1GDCFGA0018
Muting Control
C2250 50V1
R2245 6.8K
C2251 100P
R2246 33K
C2253 16V100
C2252 47P
+7.5V
IC2013
C0AABB000125
Headphone Amp
C2254 0.01
C2152 47P
C2151 100P
R2247 22
R2249 22
R2248 22
R2250 22
C2255 1000P
C2155 1000P
R2148 22
R2150 22
R2153 10
R2147 22
R2149 22
C2150 50V1
R2145 6.8K
R2146 33K
C2153 16V100
HP L
Q2102
B1GFGCAA0001
Muting Switch
R2251 4.7K
R2151 4.7K
R2152 2.7K
R2252 2.7K
R2253 10
HP R
R2268 27K
C2267 50V4.7
R2266 1.8K
HP MUTE
R2267 56K
Q2201
B1GDCFGA0018
Muting Control
+7.5V
-7.5V

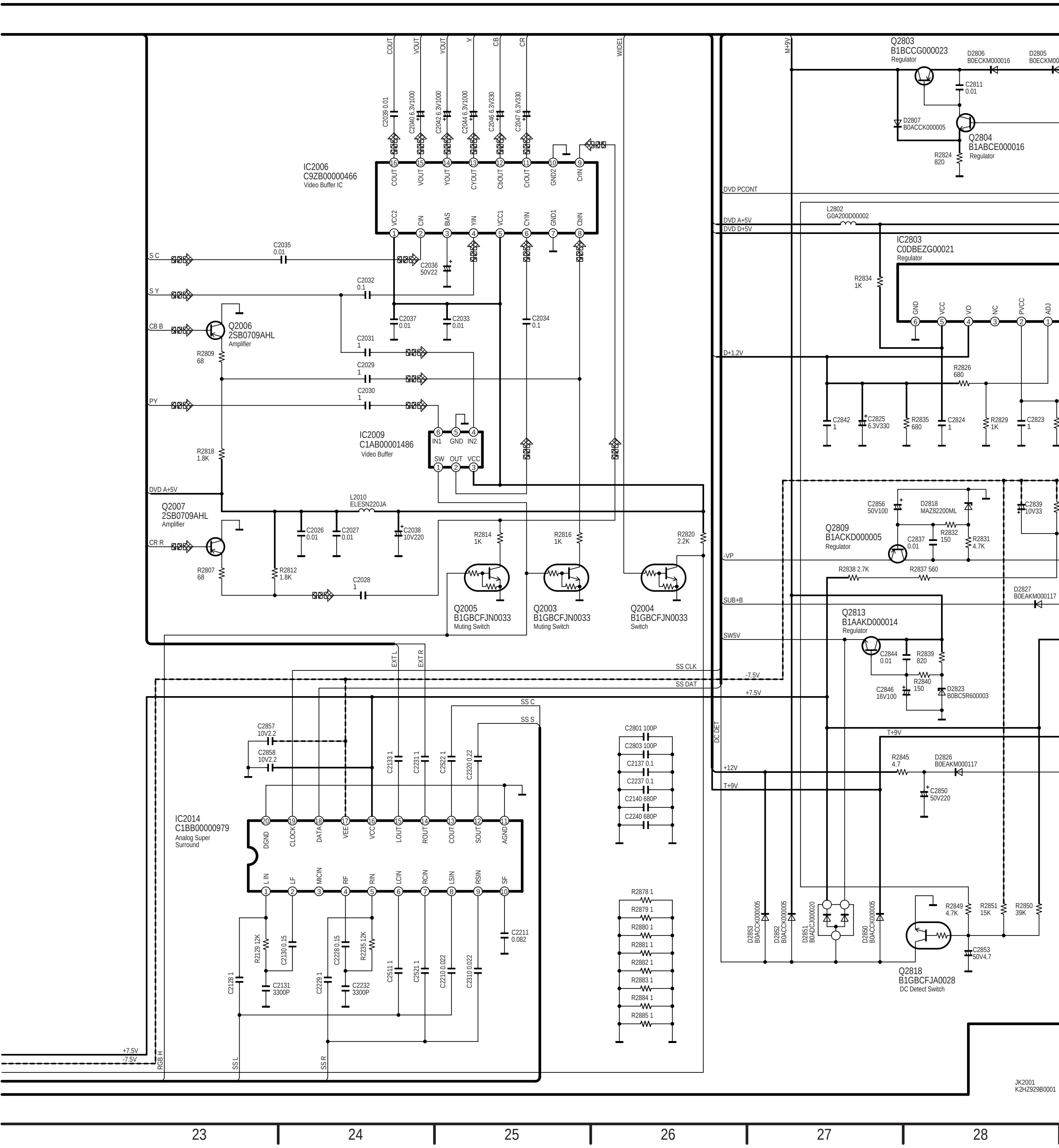
SA-HT840EB MAIN CIRCUIT

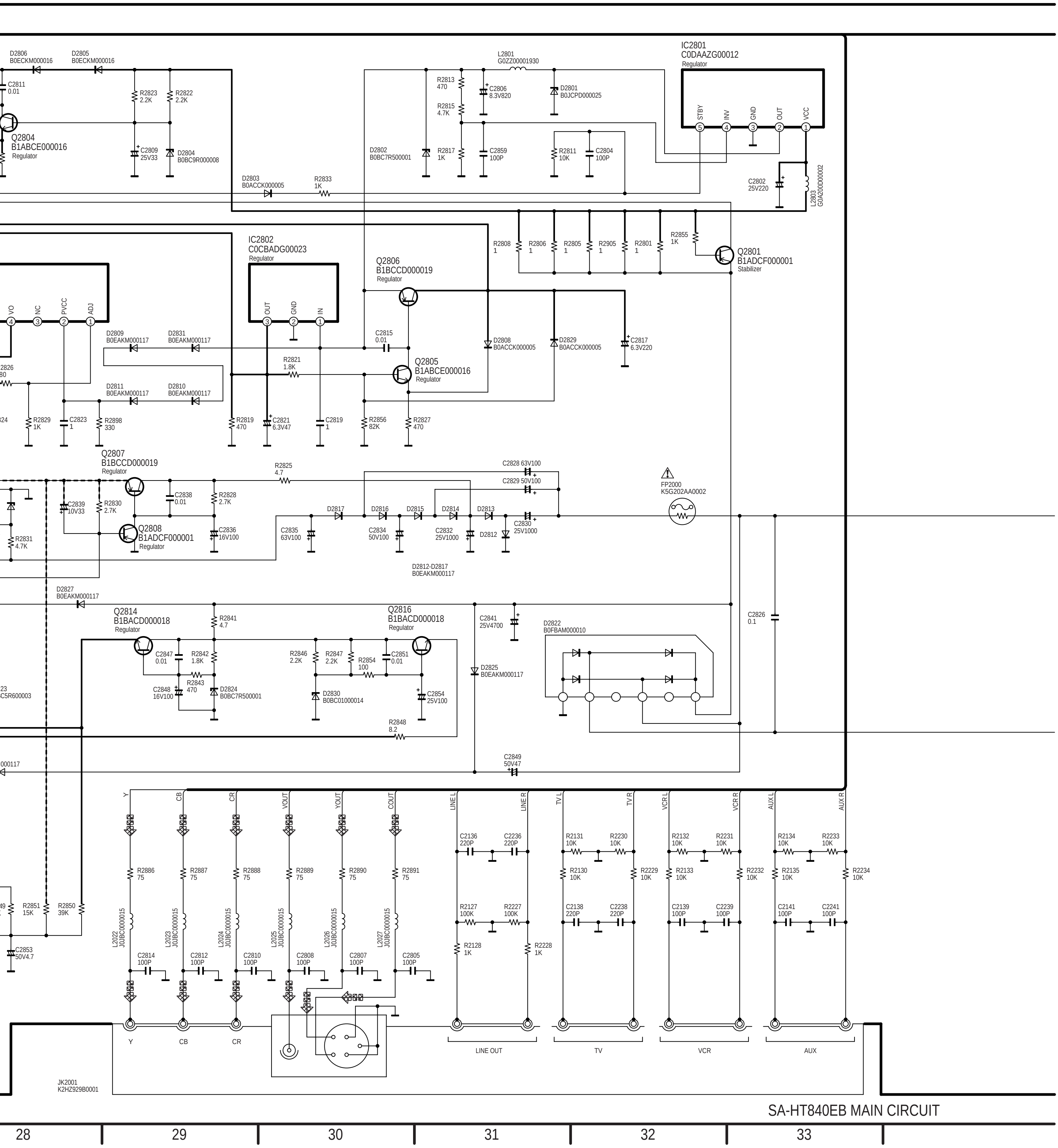
17 18 19 20 21 22

SCHEMATIC DIAGRAM-6

B MAIN CIRCUIT

:+B SIGNAL LINE   :-B SIGNAL LINE   :DVD(VIDEO) SIGNAL LINE


COUT
VOUT
YOUT
Y
CB
CR
WIDE1
M+9V
C2039 0.01
C2040 6.3V1000
C2042 6.3V1000
C2044 6.3V1000
C2046 6.3V330
C2047 6.3V330
IC2006
C9ZB00000466
Video Buffer IC
COUT
VOUT
YOUT
CYOUT
CbOUT
CrOUT
GND2
CrIN
VCC2
CIN
BIAS
YIN
VCC1
CYIN
GND1
CbIN
S C
C2035
0.01
C2036
50V22
S Y
C2032
0.1
C2037
0.01
C2033
0.01
C2034
0.1
CB B
Q2006
2SB0709AHL
Amplifier
R2809
68
C2031
1
C2029
1
PY
C2030
1
IC2009
C1AB00001486
Video Buffer
IN1
GND
IN2
SW
OUT
VCC
R2818
1.8K
DVD A+5V
Q2007
2SB0709AHL
Amplifier
L2010
ELESN220JA
C2026
0.01
C2027
0.01
C2038
10V220
CR R
R2807
68
R2812
1.8K
C2028
1
R2814
1K
R2816
1K
R2820
2.2K
Q2005
B1GBCFJN0033
Muting Switch
Q2003
B1GBCFJN0033
Muting Switch
Q2004
B1GBCFJN0033
Switch
EXT L
EXT R
SS CLK
SS DAT
SS C
SS S
C2857
10V2.2
C2858
10V2.2
C2133 1
C2231 1
C2522 1
C2320 0.22
IC2014
C1BB00000979
Analog Super
Surround
DGND
CLOCK
DATA
VEE
VCC
LOUT
ROUT
COUT
SOUT
AGND
L IN
LF
MICIN
RF
RIN
LCIN
RCIN
LSIN
RSIN
SF
R2129 12K
C2130 0.15
C2228 0.15
R2235 12K
C2211
0.082
C2128 1
C2131
3300P
C2229 1
C2232
3300P
C2511 1
C2521 1
C2210 0.022
C2310 0.022
+7.5V
-7.5V
RGB H
SS L
SS R
C2801 100P
C2803 100P
C2137 0.1
C2237 0.1
C2140 680P
C2240 680P
R2878 1
R2879 1
R2880 1
R2881 1
R2882 1
R2883 1
R2884 1
R2885 1
Q2803
B1BCCG000023
Regulator
D2806
B0ECKM000016
D2805
B0ECKM00
C2811
0.01
D2807
B0ACCK000005
Q2804
B1ABCE000016
Regulator
R2824
820
DVD PCONT
L2802
G0A200D00002
DVD A+5V
DVD D+5V
IC2803
C0DBEZG00021
Regulator
R2834
1K
GND
VCC
VO
NC
PVCC
ADJ
D+1.2V
R2826
680
C2842
1
C2825
6.3V330
R2835
680
C2824
1
R2829
1K
C2823
1
C2856
50V100
D2818
MAZ82200ML
C2839
10V33
Q2809
B1ACKD000005
Regulator
C2837
0.01
R2832
150
R2831
4.7K
-VP
R2838 2.7K
R2837 560
D2827
B0EAKM000117
SUB+B
Q2813
B1AAKD000014
Regulator
SW5V
C2844
0.01
R2839
820
R2840
150
-7.5V
+7.5V
C2846
16V100
D2823
B0BC5R600003
DC DET
T+9V
R2845
4.7
D2826
B0EAKM000117
+12V
T+9V
C2850
50V220
D2853
B0ACCK000005
D2852
B0ACCK000005
D2851
B0ADCJ000020
D2850
B0ACCK000005
R2849
4.7K
R2851
15K
R2850
39K
C2853
50V4.7
Q2818
B1GBCFJA0028
DC Detect Switch
JK2001
K2HZ929B0001
23
24
25
26
27
28

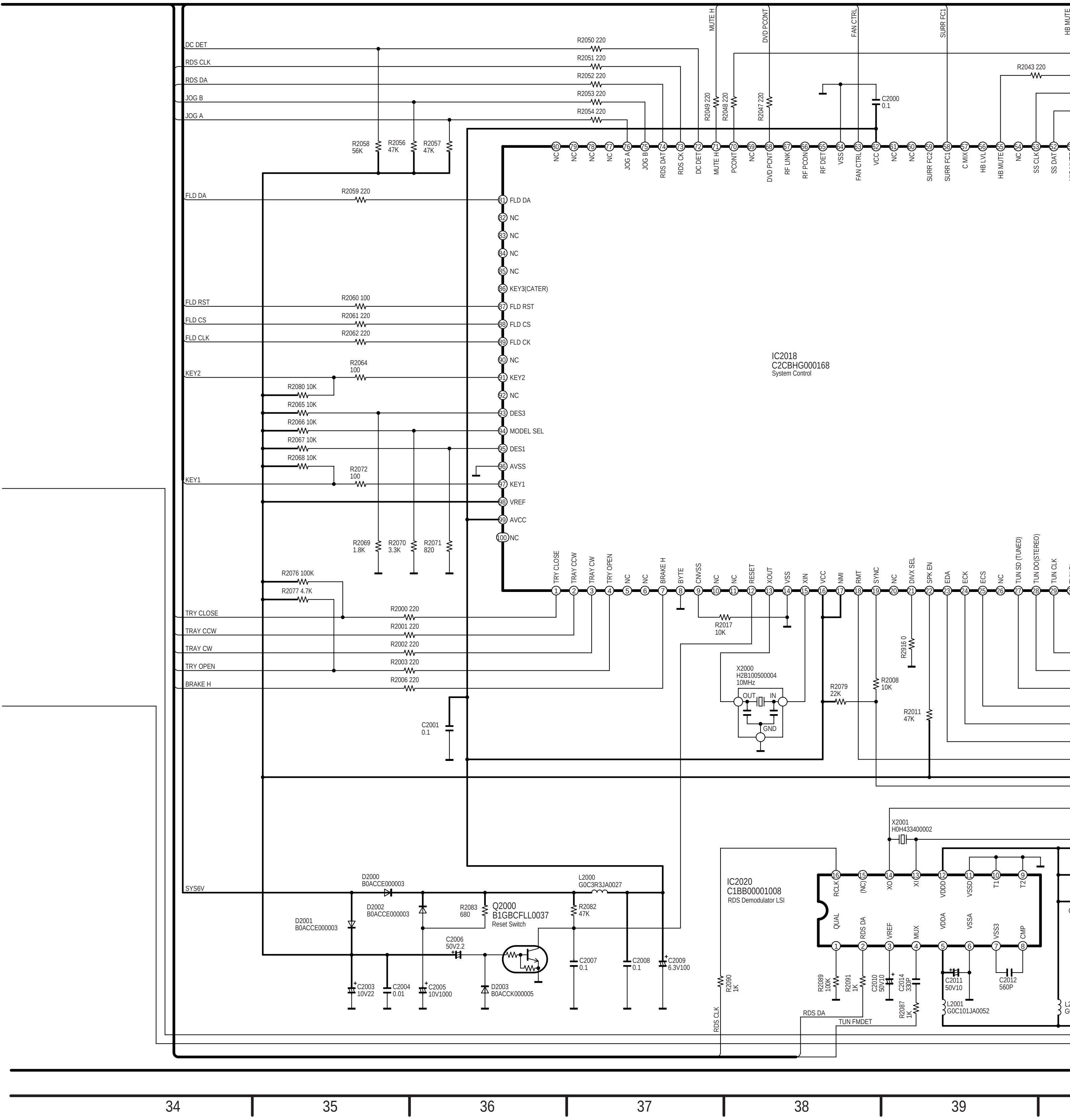

IC2801
C0DAAZG00012
Regulator
STBY
INV
GND
OUT
VCC
L2801
G0ZZ00001930
R2813
470
C2806
8.3V820
D2801
B0JCPD000025
R2815
4.7K
D2802
B0BC7R500001
R2817
1K
C2859
100P
R2811
10K
C2804
100P
C2802
25V220
L2803
G0A200D00002
D2806
B0ECKM000016
D2805
B0ECKM000016
C2811
0.01
R2823
2.2K
R2822
2.2K
Q2804
B1ABCE000016
Regulator
C2809
25V33
D2804
B0BC9R000008
D2803
B0ACCK000005
R2833
1K
R2808
1
R2806
1
R2805
1
R2905
1
R2801
1
R2855
1K
Q2801
B1ADCF000001
Stabilizer
IC2802
C0CBADG00023
Regulator
OUT
GND
IN
VO
NC
PVCC
ADJ
Q2806
B1BCCD000019
Regulator
D2809
B0EAKM000117
D2831
B0EAKM000117
C2815
0.01
D2808
B0ACCK000005
D2829
B0ACCK000005
C2817
6.3V220
R2821
1.8K
Q2805
B1ABCE000016
Regulator
R2826
80
D2811
B0EAKM000117
D2810
B0EAKM000117
R2829
1K
C2823
1
R2898
330
R2819
470
C2821
6.3V47
C2819
1
R2856
82K
R2827
470
Q2807
B1BCCD000019
Regulator
R2825
4.7
C2828 63V100
C2829 50V100
FP2000
K5G202AA0002
C2839
10V33
R2830
2.7K
C2838
0.01
R2828
2.7K
Q2808
B1ADCF000001
Regulator
C2836
16V100
R2831
4.7K
C2835
63V100
D2817
D2816
D2815
D2814
D2813
C2834
50V100
C2832
25V1000
D2812
C2830
25V1000
D2812-D2817
B0EAKM000117
D2827
B0EAKM000117
Q2814
B1BACD000018
Regulator
R2841
4.7
Q2816
B1BACD000018
Regulator
C2841
25V4700
C2826
0.1
D2822
B0FBAM000010
C2847
0.01
R2842
1.8K
R2843
470
C2848
16V100
D2824
B0BC7R500001
R2846
2.2K
R2847
2.2K
R2854
100
C2851
0.01
D2830
B0BC01000014
C2854
25V100
D2825
B0EAKM000117
R2848
8.2
C2849
50V47
Y
CB
CR
VOUT
YOUT
COUT
LINE L
LINE R
TV L
TV R
VCR L
VCR R
AUX L
AUX R
R2886
75
R2887
75
R2888
75
R2889
75
R2890
75
R2891
75
L2022
J0JBC0000015
L2023
J0JBC0000015
L2024
J0JBC0000015
L2025
J0JBC0000015
L2026
J0JBC0000015
L2027
J0JBC0000015
C2814
100P
C2812
100P
C2810
100P
C2808
100P
C2807
100P
C2805
100P
R2851
15K
R2850
39K
C2853
50V4.7
C2136
220P
C2236
220P
R2127
100K
R2227
100K
R2128
1K
R2228
1K
R2131
10K
R2230
10K
R2130
10K
R2229
10K
C2138
220P
C2238
220P
R2132
10K
R2231
10K
R2133
10K
R2232
10K
C2139
100P
C2239
100P
R2134
10K
R2233
10K
R2135
10K
R2234
10K
C2141
100P
C2241
100P
LINE OUT
TV
VCR
AUX
JK2001
K2HZ929B0001
28
29
30
31
32
33

SA-HT840EB MAIN CIRCUIT

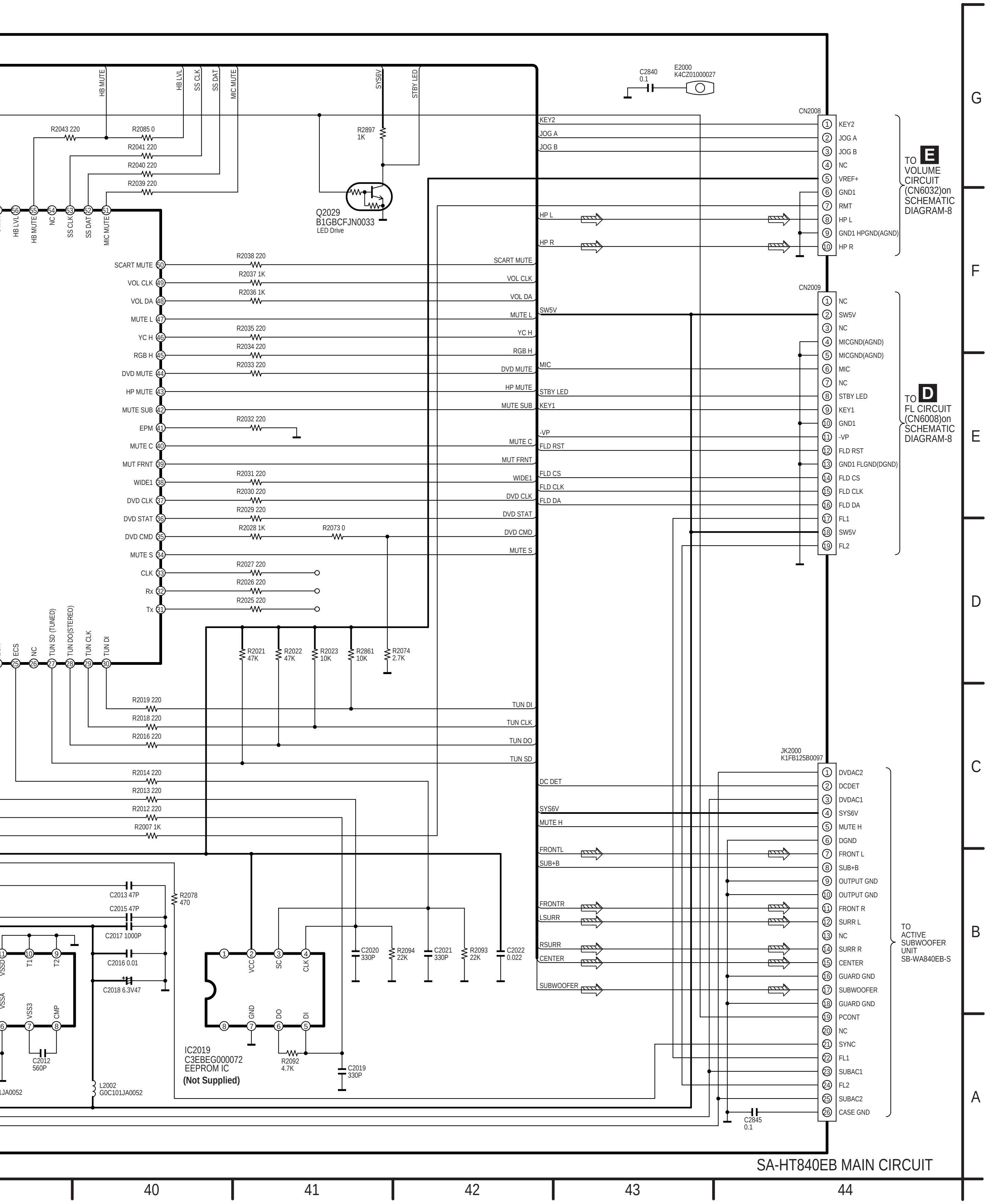
SCHEMATIC DIAGRAM-7

B MAIN CIRCUIT

:+B SIGNAL LINE   :MAIN SIGNAL LINE



DC DET
RDS CLK
RDS DA
JOG B
JOG A
FLD DA
FLD RST
FLD CS
FLD CLK
KEY2
KEY1
TRY CLOSE
TRAY CCW
TRAY CW
TRY OPEN
BRAKE H
SYS6V
MUTE H
DVD PCONT
FAN CTRL
SURR FC1
HB MUTE
R2050 220
R2051 220
R2052 220
R2053 220
R2054 220
R2049 220
R2048 220
R2047 220
R2043 220
C2000 0.1
R2058 56K
R2056 47K
R2057 47K
R2059 220
R2060 100
R2061 220
R2062 220
R2064 100
R2080 10K
R2065 10K
R2066 10K
R2067 10K
R2068 10K
R2072 100
R2069 1.8K
R2070 3.3K
R2071 820
R2076 100K
R2077 4.7K
R2000 220
R2001 220
R2002 220
R2003 220
R2006 220
R2017 10K
R2916 0
R2008 10K
R2079 22K
R2011 47K
C2001 0.1
X2000
H2B100500004
10MHz
OUT
IN
GND
IC2018
C2CBHG000168
System Control
80 NC
79 NC
78 NC
77 NC
76 JOG A
75 JOG B
74 RDS DAT
73 RDS CK
72 DC DET
71 MUTE H
70 PCONT
69 NC
68 DVD PCNT
67 RF LINK
66 RF PCON
65 RF DET
64 VSS
63 FAN CTRL
62 VCC
61 NC
60 NC
59 SURR FC2
58 SURR FC1
57 C MIX
56 HB LVL
55 HB MUTE
54 NC
53 SS CLK
52 SS DAT
81 FLD DA
82 NC
83 NC
84 NC
85 NC
86 KEY3(CATER)
87 FLD RST
88 FLD CS
89 FLD CK
90 NC
91 KEY2
92 NC
93 DES3
94 MODEL SEL
95 DES1
96 AVSS
97 KEY1
98 VREF
99 AVCC
100 NC
1 TRY CLOSE
2 TRAY CCW
3 TRAY CW
4 TRY OPEN
5 NC
6 NC
7 BRAKE H
8 BYTE
9 CNVSS
10 NC
11 NC
12 RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 NMI
18 RMT
19 SYNC
20 NC
21 DIVX SEL
22 SPK EN
23 EDA
24 ECK
25 ECS
26 NC
27 TUN SD (TUNED)
28 TUN DO(STEREO)
29 TUN CLK
D2000
B0ACCE000003
D2001
B0ACCE000003
D2002
B0ACCE000003
R2083 680
Q2000
B1GBCFLL0037
Reset Switch
L2000
G0C3R3JA0027
R2082 47K
C2006 50V2.2
D2003
B0ACCK000005
C2003 10V22
C2004 0.01
C2005 10V1000
C2007 0.1
C2008 0.1
C2009 6.3V100
R2090 1K
RDS CLK
IC2020
C1BB00001008
RDS Demodulator LSI
X2001
H0H433400002
16 RCLK
15 (NC)
14 XO
13 XI
12 VDDD
11 VSSD
10 T1
9 T2
1 QUAL
2 RDS DA
3 VREF
4 MUX
5 VDDA
6 VSSA
7 VSS3
8 CMP
R2089 100K
R2091 1K
C2010 50V10
C2014 330P
C2011 50V10
C2012 560P
R2087 1K
L2001
G0C101JA0052
RDS DA
TUN FMDET
34
35
36
37
38
39

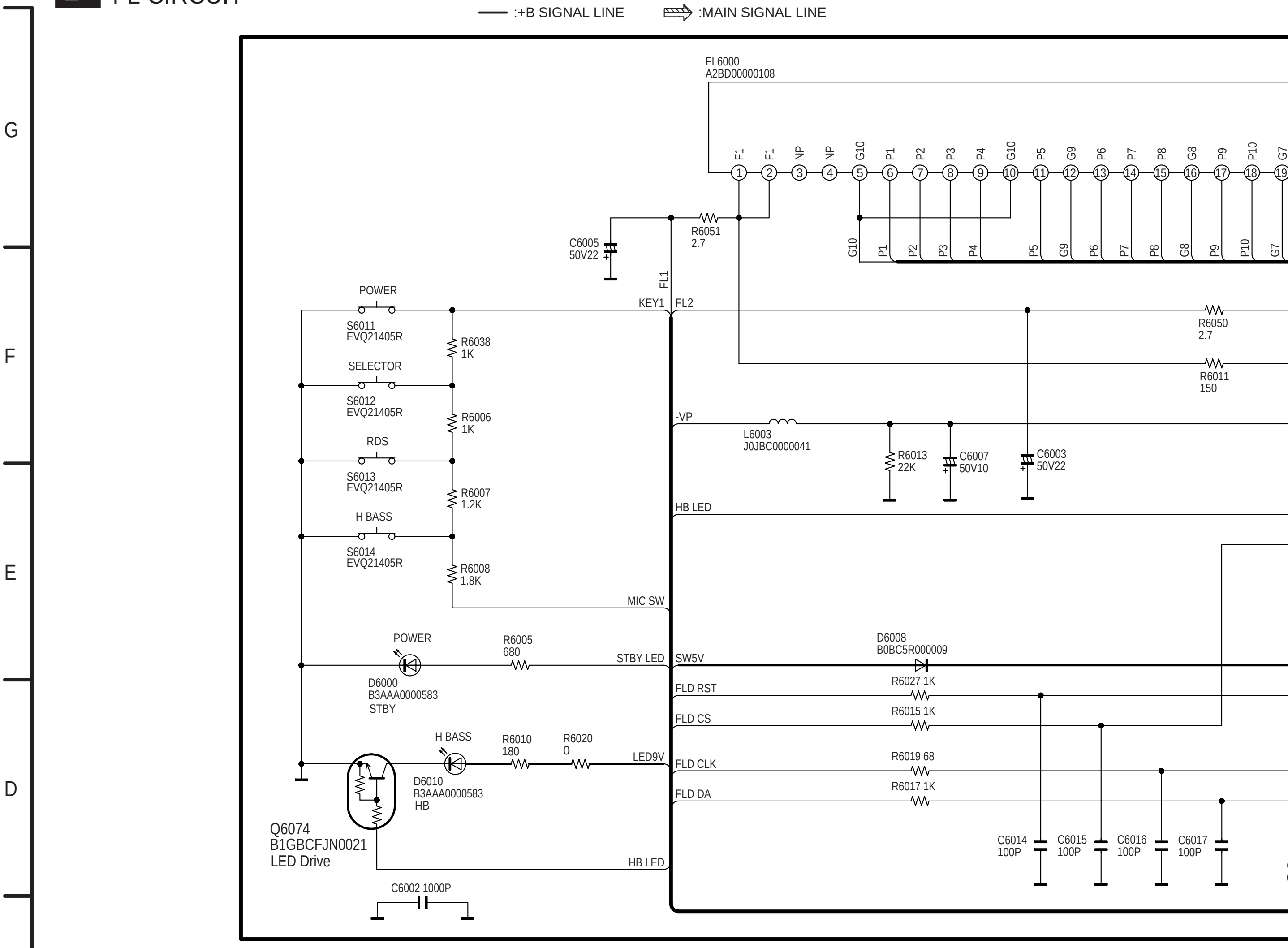

HB MUTE
HB LVL
SS CLK
SS DAT
MIC MUTE
SYS6V
STBY LED
C2840
0.1
E2000
K4CZ01000027
R2043 220
R2085 0
R2041 220
R2040 220
R2039 220
R2897
1K
Q2029
B1GBCFJN0033
LED Drive
CN2008
KEY2
JOG A
JOG B
NC
VREF+
GND1
RMT
HP L
GND1 HPGND(AGND)
HP R
TO E VOLUME CIRCUIT (CN6032)on SCHEMATIC DIAGRAM-8
SCART MUTE 50
VOL CLK 49
VOL DA 48
MUTE L 47
YC H 46
RGB H 45
DVD MUTE 44
HP MUTE 43
MUTE SUB 42
EPM 41
MUTE C 40
MUT FRNT 39
WIDE1 38
DVD CLK 37
DVD STAT 36
DVD CMD 35
MUTE S 34
CLK 33
Rx 32
Tx 31
R2038 220
R2037 1K
R2036 1K
R2035 220
R2034 220
R2033 220
R2032 220
R2031 220
R2030 220
R2029 220
R2028 1K
R2073 0
R2027 220
R2026 220
R2025 220
CN2009
NC
SW5V
MICGND(AGND)
MIC
STBY LED
KEY1
GND1
-VP
FLD RST
GND1 FLGND(DGND)
FLD CS
FLD CLK
FLD DA
FL1
FL2
TO D FL CIRCUIT (CN6008)on SCHEMATIC DIAGRAM-8
ECS
NC
TUN SD (TUNED)
TUN DO(STEREO)
TUN CLK
TUN DI
R2021 47K
R2022 47K
R2023 10K
R2861 10K
R2074 2.7K
R2019 220
R2018 220
R2016 220
TUN DI
TUN CLK
TUN DO
TUN SD
R2014 220
R2013 220
R2012 220
R2007 1K
DC DET
SYS6V
MUTE H
FRONTL
SUB+B
FRONTR
LSURR
RSURR
CENTER
SUBWOOFER
JK2000
K1FB125B0097
DVDAC2
DCDET
DVDAC1
SYS6V
MUTE H
DGND
FRONT L
SUB+B
OUTPUT GND
FRONT R
SURR L
NC
SURR R
CENTER
GUARD GND
SUBWOOFER
PCONT
SYNC
FL1
SUBAC1
FL2
SUBAC2
CASE GND
TO ACTIVE SUBWOOFER UNIT SB-WA840EB-S
C2845
0.1
C2013 47P
C2015 47P
C2017 1000P
C2016 0.01
C2018 6.3V47
R2078
470
VSSD
T1
T2
VSSA
VSS3
CMP
C2012
560P
L2002
G0C101JA0052
JA0052
VCC
SC
CLK
GND
DO
DI
IC2019
C3EBEG000072
EEPROM IC
(Not Supplied)
R2092
4.7K
C2019
330P
C2020
330P
R2094
22K
C2021
330P
R2093
22K
C2022
0.022
G
F
E
D
C
B
A
40
41
42
43
44

SA-HT840EB MAIN CIRCUIT

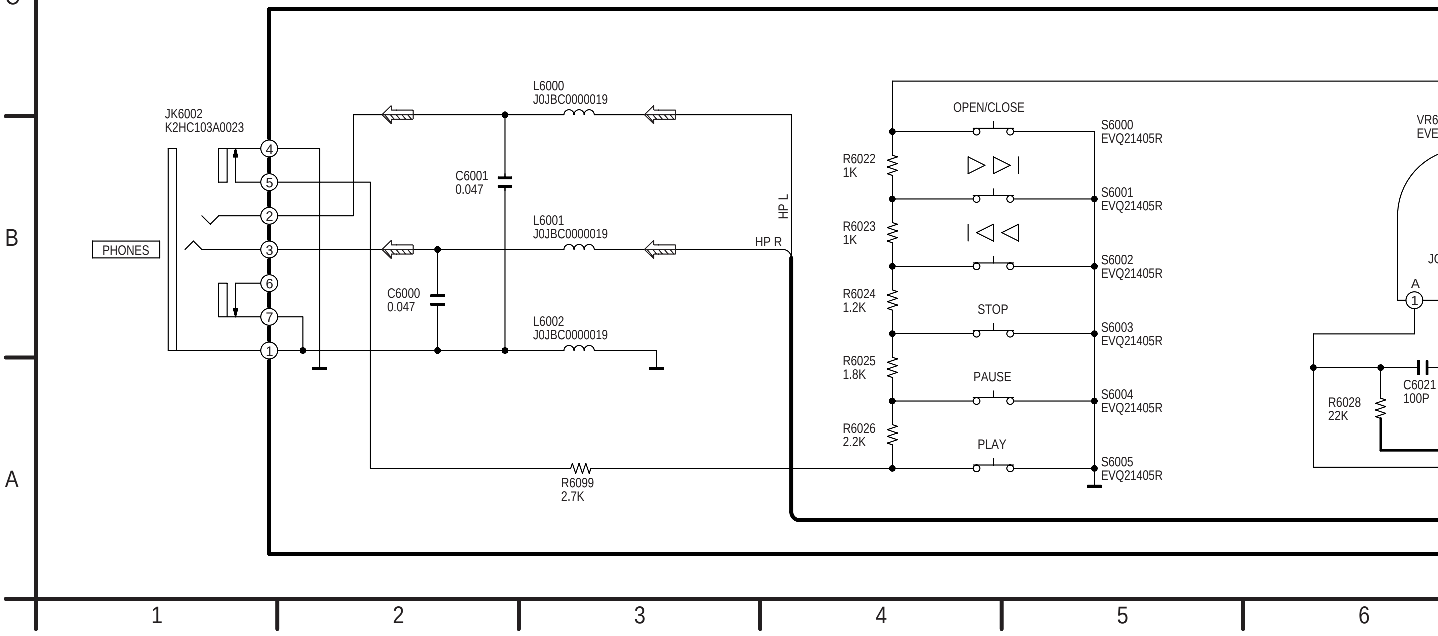
SCHEMATIC DIAGRAM-8

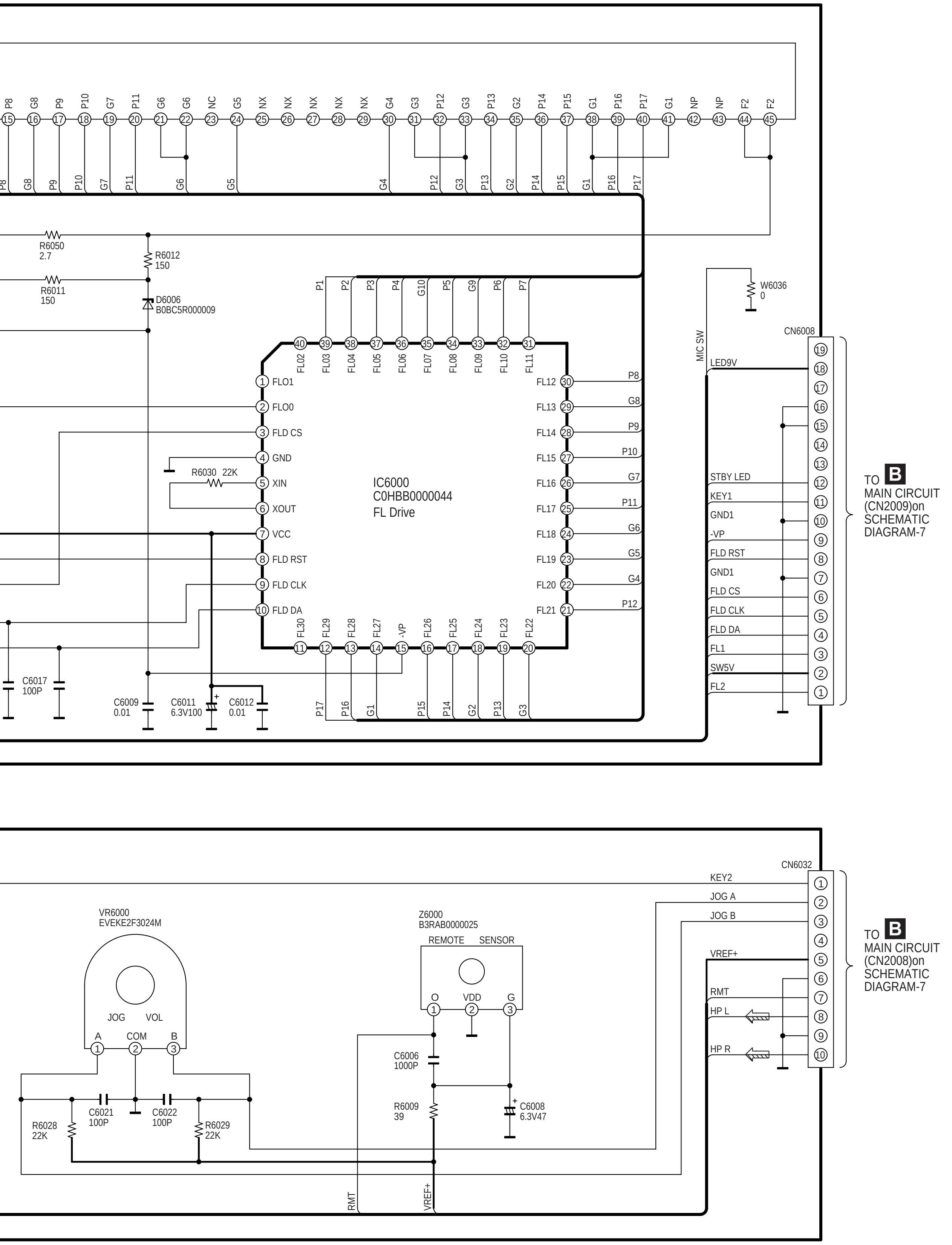
D FL CIRCUIT

—— :+B SIGNAL LINE ⇨ :MAIN SIGNAL LINE


G
F
E
D
FL6000
A2BD00000108
F1
F1
NP
NP
G10
P1
P2
P3
P4
G10
P5
G9
P6
P7
P8
G8
P9
P10
G7
C6005
50V22
R6051
2.7
FL1
POWER
S6011
EVQ21405R
R6038
1K
KEY1
FL2
R6050
2.7
SELECTOR
S6012
EVQ21405R
R6006
1K
R6011
150
RDS
S6013
EVQ21405R
R6007
1.2K
-VP
L6003
J0JBC0000041
R6013
22K
C6007
50V10
C6003
50V22
HB LED
H BASS
S6014
EVQ21405R
R6008
1.8K
MIC SW
POWER
R6005
680
STBY LED
SW5V
D6008
B0BC5R000009
D6000
B3AAA0000583
STBY
FLD RST
R6027 1K
FLD CS
R6015 1K
H BASS
R6010
180
R6020
0
LED9V
FLD CLK
R6019 68
FLD DA
R6017 1K
D6010
B3AAA0000583
HB
Q6074
B1GBCFJN0021
LED Drive
C6014
100P
C6015
100P
C6016
100P
C6017
100P
HB LED
C6002 1000P

E VOLUME CIRCUIT


C
B
A
JK6002
K2HC103A0023
PHONES
L6000
J0JBC0000019
C6001
0.047
HP L
L6001
J0JBC0000019
HP R
C6000
0.047
L6002
J0JBC0000019
R6099
2.7K
OPEN/CLOSE
S6000
EVQ21405R
R6022
1K
▷▷|
S6001
EVQ21405R
R6023
1K
|◁◁
S6002
EVQ21405R
R6024
1.2K
STOP
S6003
EVQ21405R
R6025
1.8K
PAUSE
S6004
EVQ21405R
R6026
2.2K
PLAY
S6005
EVQ21405R
VR6
EVE
A
C6021
100P
R6028
22K
1
2
3
4
5
6

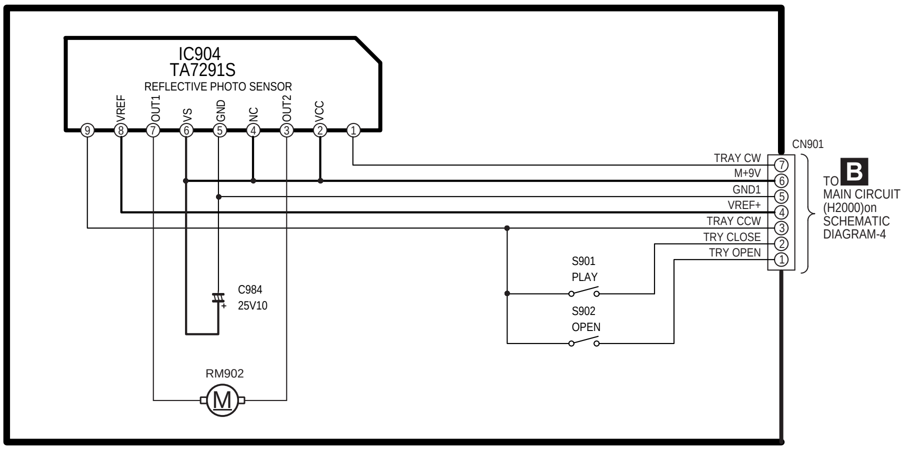

P8 G8 P9 P10 G7 P11 G6 G6 NC G5 NX NX NX NX NX G4 G3 P12 G3 P13 G2 P14 P15 G1 P16 P17 G1 NP NP F2 F2
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
R6050
2.7
R6012
150
R6011
150
D6006
B0BC5R000009
P1 P2 P3 P4 G10 P5 G9 P6 P7
FL02 FL03 FL04 FL05 FL06 FL07 FL08 FL09 FL10 FL11
FLO1
FLO0
FLD CS
GND
R6030 22K
XIN
XOUT
VCC
FLD RST
FLD CLK
FLD DA
IC6000
C0HBB0000044
FL Drive
FL12
FL13
FL14
FL15
FL16
FL17
FL18
FL19
FL20
FL21
P8 G8 P9 P10 G7 P11 G6 G5 G4 P12
FL30 FL29 FL28 FL27 -VP FL26 FL25 FL24 FL23 FL22
P17 P16 G1 P15 P14 G2 P13 G3
C6017
100P
C6009
0.01
C6011
6.3V100
C6012
0.01
MIC SW
W6036
0
CN6008
LED9V
STBY LED
KEY1
GND1
-VP
FLD RST
GND1
FLD CS
FLD CLK
FLD DA
FL1
SW5V
FL2
TO B
MAIN CIRCUIT
(CN2009)on
SCHEMATIC
DIAGRAM-7
VR6000
EVEKE2F3024M
JOG VOL
A COM B
C6021
100P
C6022
100P
R6028
22K
R6029
22K
Z6000
B3RAB0000025
REMOTE SENSOR
O VDD G
C6006
1000P
R6009
39
C6008
6.3V47
RMT
VREF+
CN6032
KEY2
JOG A
JOG B
VREF+
RMT
HP L
HP R
TO B
MAIN CIRCUIT
(CN2008)on
SCHEMATIC
DIAGRAM-7

SA-HT840EB FL/VOLUME CIRCUIT

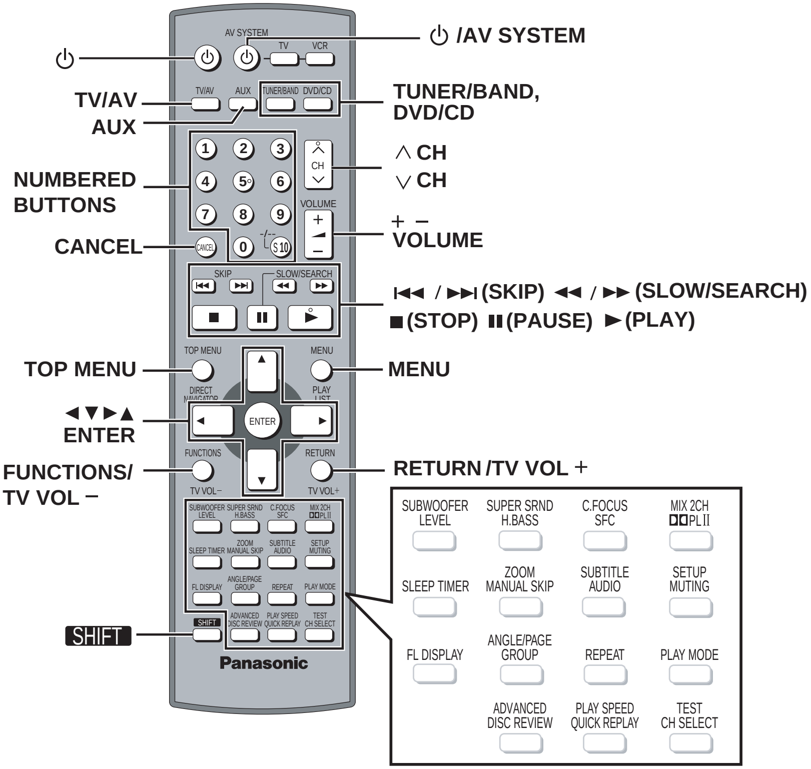
6 7 8 9 10 11

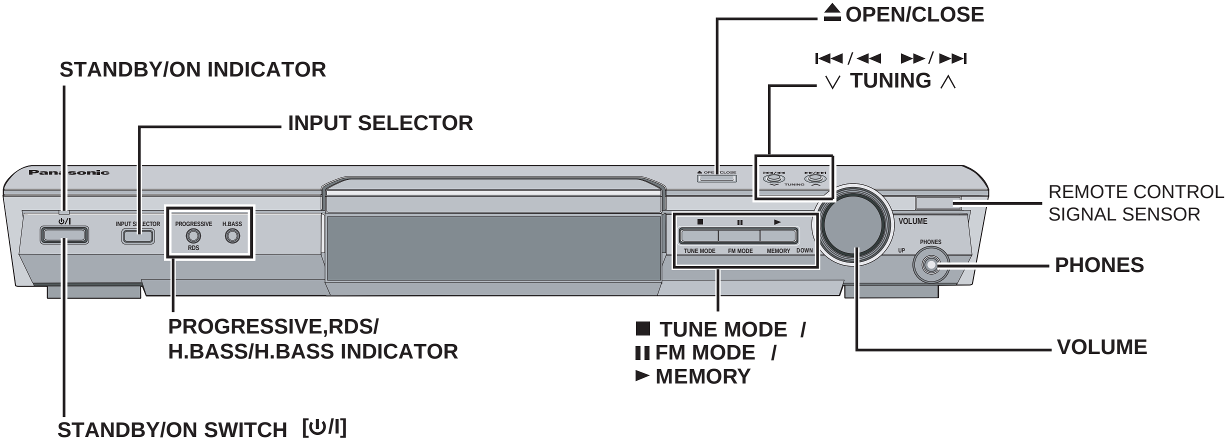
SCHEMATIC DIAGRAM-9

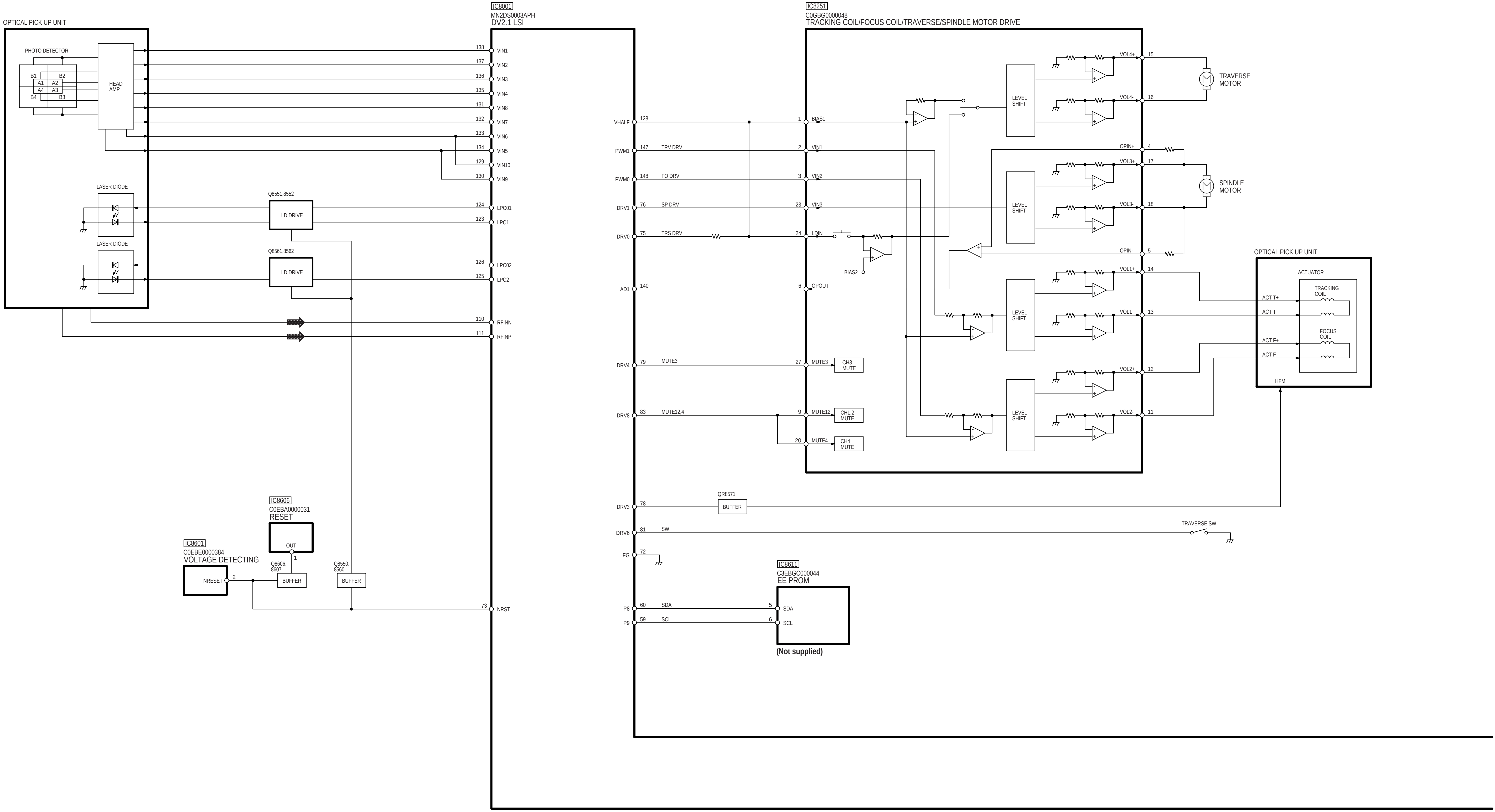
F TRAY LOADING CIRCUIT


IC904
TA7291S
REFLECTIVE PHOTO SENSOR
VREF
OUT1
VS
GND
NC
OUT2
VCC
9
8
7
6
5
4
3
2
1
CN901
TRAY CW
M+9V
GND1
VREF+
TRAY CCW
TRY CLOSE
TRY OPEN
7
6
5
4
3
2
1
TO B
MAIN CIRCUIT
(H2000)on
SCHEMATIC
DIAGRAM-4
S901
PLAY
S902
OPEN
C984
25V10
RM902
M

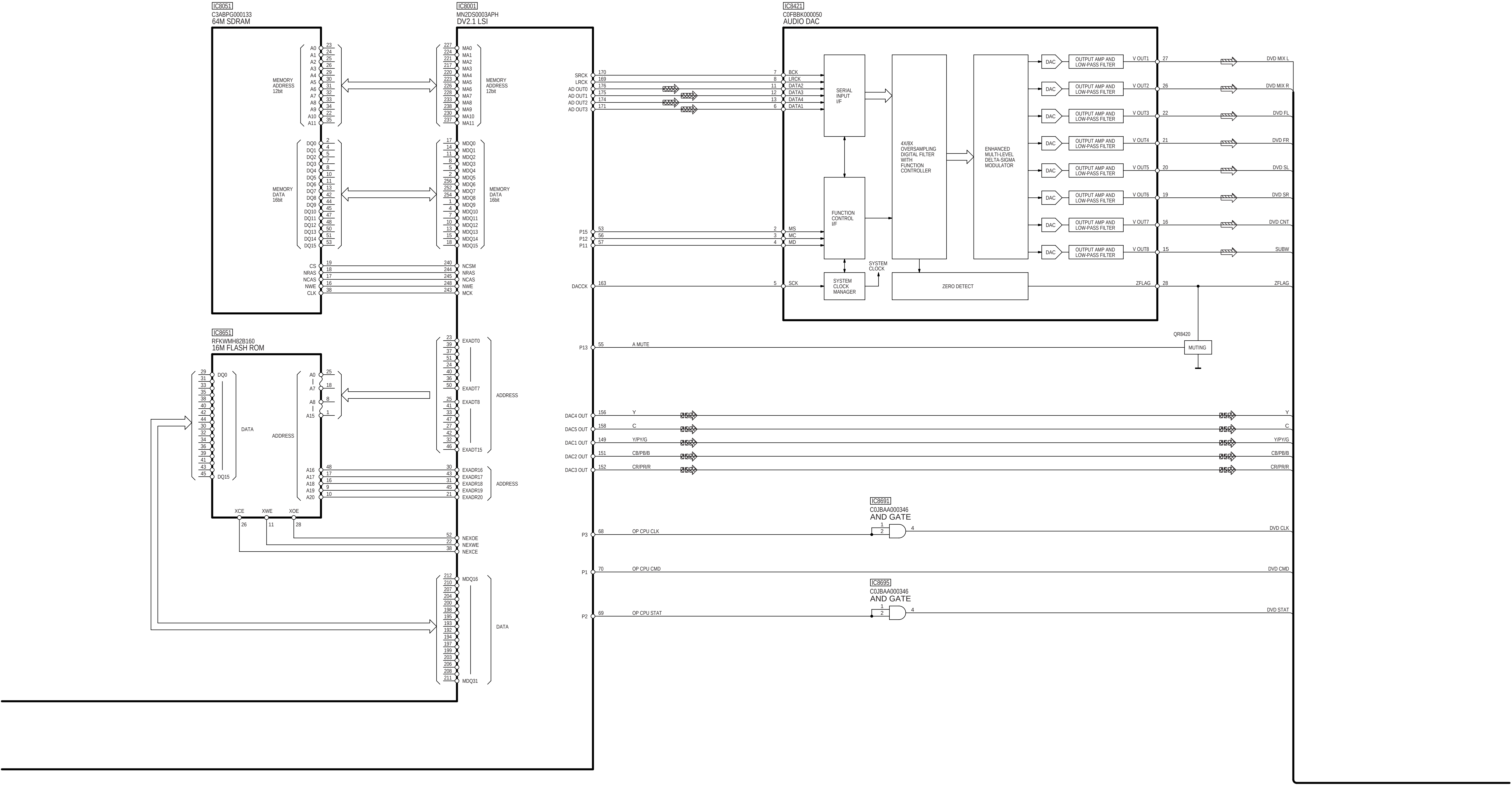
SA-HT840EB TRAY LOADING CIRCUIT


⏻
⏻ /AV SYSTEM
TV/AV
AUX
TUNER/BAND,
DVD/CD
NUMBERED
BUTTONS
∧ CH
∨ CH
+ −
VOLUME
CANCEL
⏮ / ⏭ (SKIP) ◀◀ / ▶▶ (SLOW/SEARCH)
■ (STOP) ❚❚ (PAUSE) ▶ (PLAY)
TOP MENU
MENU
◀ ▼ ▶ ▲
ENTER
FUNCTIONS/
TV VOL −
RETURN /TV VOL +
SHIFT
SUBWOOFER LEVEL
SUPER SRND H.BASS
C.FOCUS SFC
MIX 2CH ◘◘PL II
SLEEP TIMER
ZOOM MANUAL SKIP
SUBTITLE AUDIO
SETUP MUTING
FL DISPLAY
ANGLE/PAGE GROUP
REPEAT
PLAY MODE
ADVANCED DISC REVIEW
PLAY SPEED QUICK REPLAY
TEST CH SELECT
Panasonic

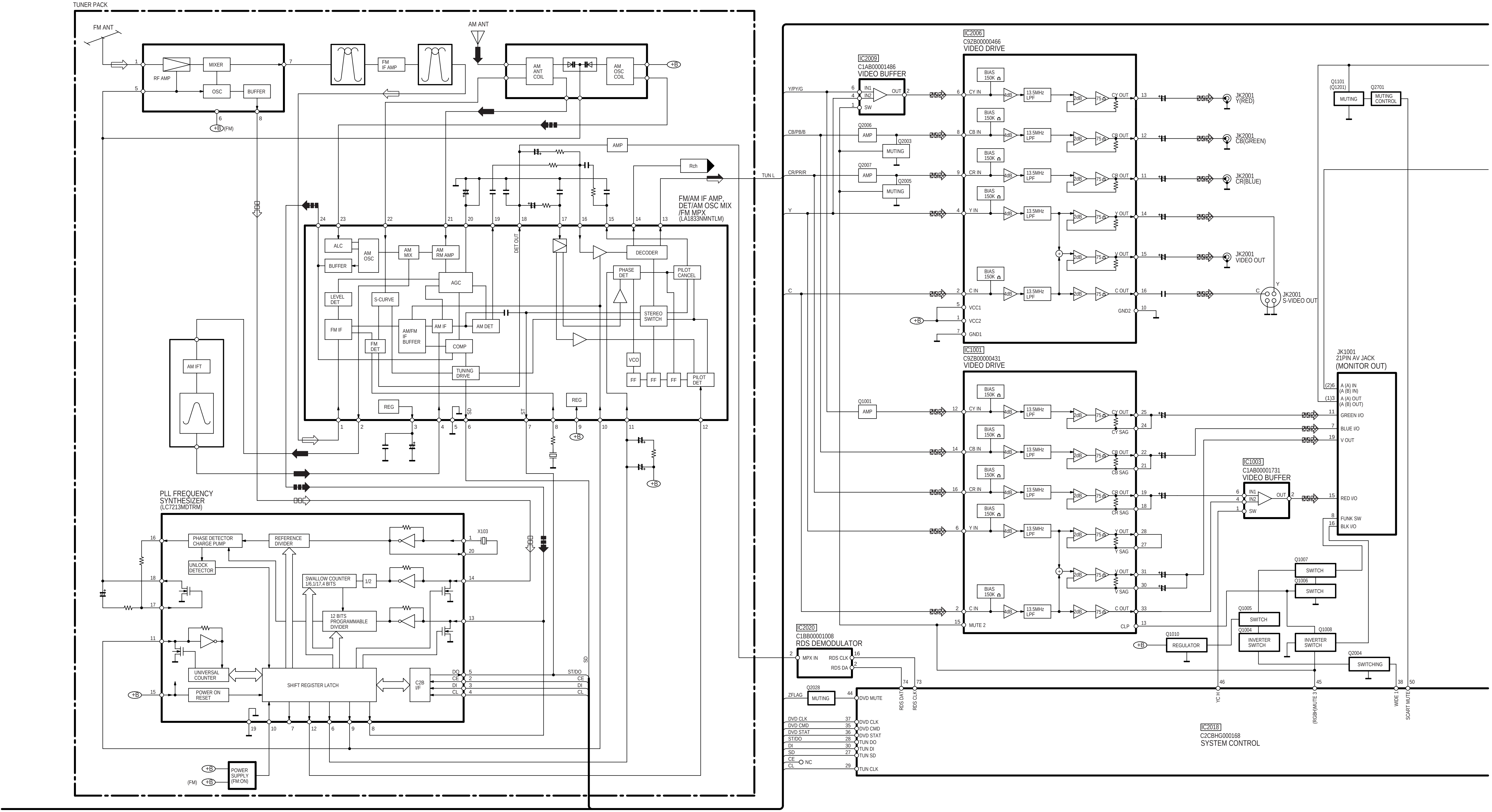

⏏ OPEN/CLOSE
⏮ / ◀◀ ▶▶ / ⏭
∨ TUNING ∧
STANDBY/ON INDICATOR
INPUT SELECTOR
REMOTE CONTROL
SIGNAL SENSOR
PHONES
VOLUME
PROGRESSIVE,RDS/
H.BASS/H.BASS INDICATOR
■ TUNE MODE /
❚❚ FM MODE /
▶ MEMORY
STANDBY/ON SWITCH [⏻/I]
Panasonic


OPTICAL PICK UP UNIT
PHOTO DETECTOR
B1
B2
A1
A2
A4
A3
B4
B3
HEAD AMP
LASER DIODE
LASER DIODE
Q8551,8552
LD DRIVE
Q8561,8562
LD DRIVE
IC8001
MN2DS0003APH
DV2.1 LSI
138 VIN1
137 VIN2
136 VIN3
135 VIN4
131 VIN8
132 VIN7
133 VIN6
134 VIN5
129 VIN10
130 VIN9
124 LPC01
123 LPC1
126 LPC02
125 LPC2
110 RFINN
111 RFINP
73 NRST
IC8606
C0EBA0000031
RESET
OUT
1
IC8601
C0EBE0000384
VOLTAGE DETECTING
NRESET
2
Q8606, 8607
BUFFER
Q8550, 8560
BUFFER
VHALF 128
PWM1 147 TRV DRV
PWM0 148 FO DRV
DRV1 76 SP DRV
DRV0 75 TRS DRV
AD1 140
DRV4 79 MUTE3
DRV8 83 MUTE12,4
DRV3 78
QR8571
BUFFER
DRV6 81 SW
FG 72
P8 60 SDA
P9 59 SCL
IC8251
C0GBG0000048
TRACKING COIL/FOCUS COIL/TRAVERSE/SPINDLE MOTOR DRIVE
1 BIAS1
2 VIN1
3 VIN2
23 VIN3
24 LDIN
BIAS2
6 OPOUT
27 MUTE3
CH3 MUTE
9 MUTE12
CH1,2 MUTE
20 MUTE4
CH4 MUTE
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
LEVEL SHIFT
VOL4+ 15
VOL4- 16
OPIN+ 4
VOL3+ 17
VOL3- 18
OPIN- 5
VOL1+ 14
VOL1- 13
VOL2+ 12
VOL2- 11
TRAVERSE MOTOR
SPINDLE MOTOR
OPTICAL PICK UP UNIT
ACTUATOR
TRACKING COIL
ACT T+
ACT T-
FOCUS COIL
ACT F+
ACT F-
HFM
TRAVERSE SW
IC8611
C3EBGC000044
EE PROM
5 SDA
6 SCL
(Not supplied)

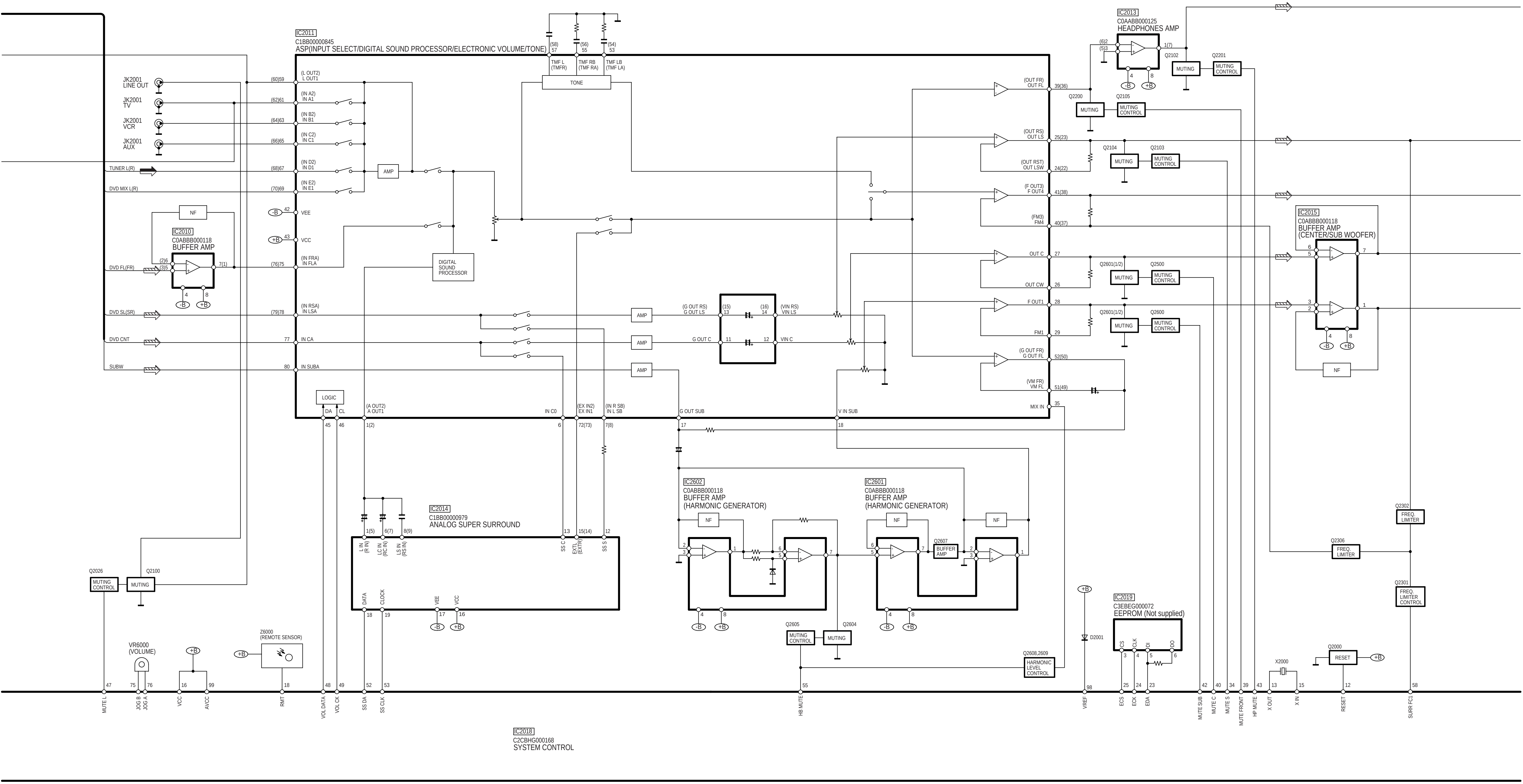
SA-HT840EB BLOCK DIAGRAM


IC8051
C3ABPG000133
64M SDRAM
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11
23 24 25 26 29 30 31 32 33 34 22 35
MEMORY ADDRESS 12bit
DQ0 DQ1 DQ2 DQ3 DQ4 DQ5 DQ6 DQ7 DQ8 DQ9 DQ10 DQ11 DQ12 DQ13 DQ14 DQ15
2 4 5 7 8 10 11 13 42 44 45 47 48 50 51 53
MEMORY DATA 16bit
CS NRAS NCAS NWE CLK
19 18 17 16 38
IC8001
MN2DS0003APH
DV2.1 LSI
227 224 221 217 220 223 226 228 233 238 230 237
MA0 MA1 MA2 MA3 MA4 MA5 MA6 MA7 MA8 MA9 MA10 MA11
MEMORY ADDRESS 12bit
17 14 11 8 5 2 256 252 254 1 4 7 10 13 15 18
MDQ0 MDQ1 MDQ2 MDQ3 MDQ4 MDQ5 MDQ6 MDQ7 MDQ8 MDQ9 MDQ10 MDQ11 MDQ12 MDQ13 MDQ14 MDQ15
MEMORY DATA 16bit
240 244 245 248 243
NCSM NRAS NCAS NWE MCK
IC8651
RFKWMH82B160
16M FLASH ROM
29 31 33 35 38 40 42 44 30 32 34 36 39 41 43 45
DQ0
DQ15
DATA
A0 A7 A8 A15
25 18 8 1
ADDRESS
A16 A17 A18 A19 A20
48 17 16 9 10
XCE XWE XOE
26 11 28
23 39 37 51 24 40 36 50 25 41 33 47 27 42 32 46
EXADT0
EXADT7
EXADT8
EXADT15
ADDRESS
30 43 31 45 21
EXADR16 EXADR17 EXADR18 EXADR19 EXADR20
ADDRESS
52 22 38
NEXOE NEXWE NEXCE
212 210 207 204 200 198 195 193 192 194 197 199 203 206 208 211
MDQ16
MDQ31
DATA
SRCK LRCK AD OUT0 AD OUT1 AD OUT2 AD OUT3
170 169 176 175 174 171
P15 P12 P11
53 56 57
DACCK
163
P13
55
A MUTE
DAC4 OUT 156 Y
DAC5 OUT 158 C
DAC1 OUT 149 Y/PY/G
DAC2 OUT 151 CB/PB/B
DAC3 OUT 152 CR/PR/R
P3 68 OP CPU CLK
P1 70 OP CPU CMD
P2 69 OP CPU STAT
IC8421
C0FBBK000050
AUDIO DAC
7 BCK
8 LRCK
11 DATA2
12 DATA3
13 DATA4
6 DATA1
SERIAL INPUT I/F
4X/8X OVERSAMPLING DIGITAL FILTER WITH FUNCTION CONTROLLER
ENHANCED MULTI-LEVEL DELTA-SIGMA MODULATOR
2 MS
3 MC
4 MD
FUNCTION CONTROL I/F
SYSTEM CLOCK
5 SCK
SYSTEM CLOCK MANAGER
ZERO DETECT
DAC
OUTPUT AMP AND LOW-PASS FILTER
V OUT1 27 DVD MIX L
V OUT2 26 DVD MIX R
V OUT3 22 DVD FL
V OUT4 21 DVD FR
V OUT5 20 DVD SL
V OUT6 19 DVD SR
V OUT7 16 DVD CNT
V OUT8 15 SUBW
ZFLAG 28 ZFLAG
QR8420
MUTING
Y
C
Y/PY/G
CB/PB/B
CR/PR/R
IC8691
C0JBAA000346
AND GATE
1 2 4
DVD CLK
DVD CMD
IC8695
C0JBAA000346
AND GATE
1 2 4
DVD STAT

SA-HT840EB BLOCK DIAGRAM


TUNER PACK
FM ANT
RF AMP
MIXER
OSC
BUFFER
+B (FM)
FM IF AMP
AM ANT
AM ANT COIL
AM OSC COIL
AMP
Rch
FM/AM IF AMP, DET/AM OSC MIX /FM MPX
(LA1833NMNTLM)
ALC
AM OSC
AM MIX
AM RM AMP
BUFFER
AGC
LEVEL DET
S-CURVE
FM IF
AM/FM IF BUFFER
AM IF
AM DET
FM DET
COMP
TUNING DRIVE
DECODER
PHASE DET
PILOT CANCEL
STEREO SWITCH
VCO
FF
PILOT DET
REG
DET OUT
SD
ST
AM IFT
PLL FREQUENCY SYNTHESIZER
(LC7213MDTRM)
PHASE DETECTOR CHARGE PUMP
REFERENCE DIVIDER
UNLOCK DETECTOR
SWALLOW COUNTER 1/6,1/17,4 BITS
1/2
12 BITS PROGRAMMABLE DIVIDER
UNIVERSAL COUNTER
POWER ON RESET
SHIFT REGISTER LATCH
C2B I/F
X103
DO
CE
DI
CL
ST/DO
POWER SUPPLY (FM:ON)
(FM)
TUN L
Y/PY/G
CB/PB/B
CR/PR/R
Y
C
IC2009
C1AB00001486
VIDEO BUFFER
IN1
IN2
SW
OUT
Q2006
Q2007
AMP
Q2003
Q2005
MUTING
IC2006
C9ZB00000466
VIDEO DRIVE
BIAS 150K Ω
CY IN
CB IN
CR IN
Y IN
C IN
4dB
13.5MHz LPF
2dB
75 Ω
CY OUT
CB OUT
CR OUT
Y OUT
V OUT
C OUT
VCC1
VCC2
GND1
GND2
JK2001 Y(RED)
JK2001 CB(GREEN)
JK2001 CR(BLUE)
JK2001 VIDEO OUT
JK2001 S-VIDEO OUT
IC1001
C9ZB00000431
VIDEO DRIVE
Q1001
CY SAG
CB SAG
CR SAG
Y SAG
V SAG
MUTE 2
CLP
Q1101 (Q1201)
Q2701
MUTING CONTROL
JK1001
21PIN AV JACK
(MONITOR OUT)
A (A) IN (A (B) IN)
A (A) OUT (A (B) OUT)
GREEN I/O
BLUE I/O
V OUT
RED I/O
FUNK SW
BLK I/O
IC1003
C1AB00001731
VIDEO BUFFER
Q1007
Q1006
SWITCH
Q1005
Q1004
INVERTER SWITCH
Q1008
Q1010
REGULATOR
Q2004
SWITCHING
IC2020
C1BB00001008
RDS DEMODULATOR
MPX IN
RDS CLK
RDS DA
Q2028
ZFLAG
DVD CLK
DVD CMD
DVD STAT
ST/DO
DI
SD
CE
CL
NC
DVD MUTE
TUN DO
TUN DI
TUN SD
TUN CLK
RDS DAT
YC H
(RGBH)MUTE 3
WIDE 1
SCART MUTE
IC2018
C2CBHG000168
SYSTEM CONTROL

SA-HT840EB BLOCK DIAGRAM


IC2011
C1BB00000845
ASP(INPUT SELECT/DIGITAL SOUND PROCESSOR/ELECTRONIC VOLUME/TONE)
TMF L (TMFR)
TMF RB (TMF RA)
TMF LB (TMF LA)
TONE
JK2001 LINE OUT
JK2001 TV
JK2001 VCR
JK2001 AUX
TUNER L(R)
DVD MIX L(R)
DVD FL(FR)
DVD SL(SR)
DVD CNT
SUBW
(L OUT2) L OUT1
(IN A2) IN A1
(IN B2) IN B1
(IN C2) IN C1
(IN D2) IN D1
(IN E2) IN E1
VEE
VCC
(IN FRA) IN FLA
(IN RSA) IN LSA
IN CA
IN SUBA
AMP
DIGITAL SOUND PROCESSOR
NF
IC2010
C0ABBB000118
BUFFER AMP
LOGIC
DA
CL
(A OUT2) A OUT1
IN C0
(EX IN2) EX IN1
(IN R SB) IN L SB
G OUT SUB
V IN SUB
MIX IN
(G OUT RS) G OUT LS
G OUT C
(VIN RS) VIN LS
VIN C
(OUT FR) OUT FL
(OUT RS) OUT LS
(OUT RST) OUT LSW
(F OUT3) F OUT4
(FM3) FM4
OUT C
OUT CW
F OUT1
FM1
(G OUT FR) G OUT FL
(VM FR) VM FL
IC2013
C0AABB000125
HEADPHONES AMP
Q2102
Q2201
MUTING
MUTING CONTROL
Q2200
Q2105
Q2104
Q2103
Q2601(1/2)
Q2500
Q2600
IC2015
C0ABBB000118
BUFFER AMP
(CENTER/SUB WOOFER)
IC2014
C1BB00000979
ANALOG SUPER SURROUND
L IN (R IN)
LC IN (RC IN)
LS IN (RS IN)
SS C
EXTL (EXTR)
SS S
DATA
CLOCK
VEE
VCC
IC2602
C0ABBB000118
BUFFER AMP
(HARMONIC GENERATOR)
IC2601
C0ABBB000118
BUFFER AMP
(HARMONIC GENERATOR)
Q2607
BUFFER AMP
Q2605
Q2604
Q2608,2609
HARMONIC LEVEL CONTROL
Q2026
Q2100
VR6000 (VOLUME)
Z6000 (REMOTE SENSOR)
D2001
IC2019
C3EBEG000072
EEPROM (Not supplied)
ECS
ECK
DI
DO
X2000
Q2000
RESET
Q2302
Q2306
Q2301
FREQ. LIMITER
FREQ. LIMITER CONTROL
IC2018
C2CBHG000168
SYSTEM CONTROL
MUTE L
JOG B
JOG A
VCC
AVCC
RMT
VOL DATA
VOL CK
SS DA
SS CLK
HB MUTE
VREF
ECS
ECK
EDA
MUTE SUB
MUTE C
MUTE S
MUTE FRONT
HP MUTE
X OUT
X IN
RESET
SURR FC1
-B
+B

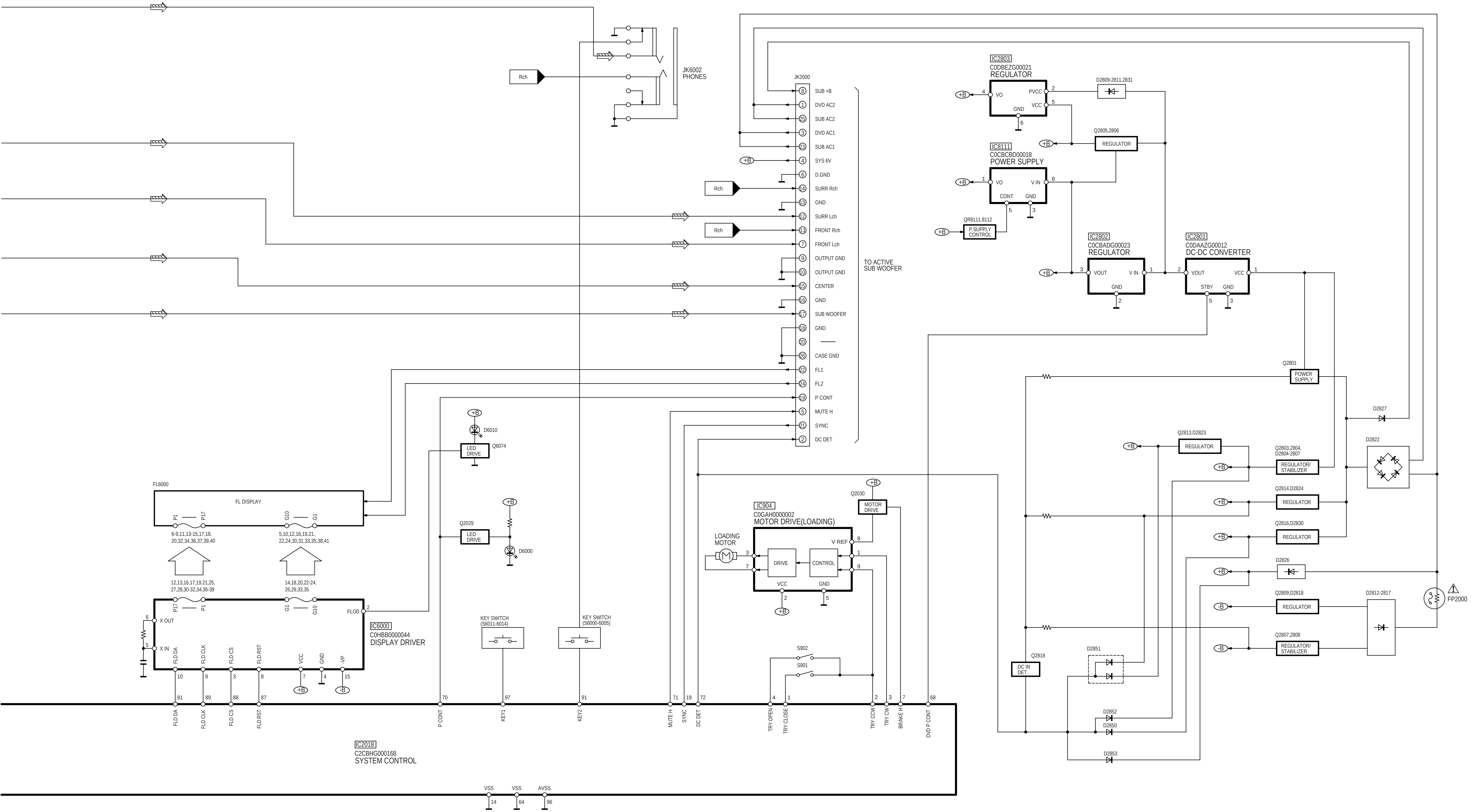
SA-HT840EB BLOCK DIAGRAM

SIGNAL LINES

▨⇨	: MAIN SIGNAL LINE	➡	: AM SIGNAL LINE	▩⇨	: DVD AUDIO SIGNAL LINE
⇨	: FM SIGNAL LINE	■■➡	: AM OSC SIGNAL LINE	☒☒⇨	: DVD VIDEO SIGNAL LINE
□□⇨	: FM OSC SIGNAL LINE	⇨	: FM /AM SIGNAL LINE	▦⇨	: CD-DA (AUDIO /VIDEO) SIGNAL LINE

( ) Indicates the Pin No. of Right Channel.

NOTE : Signal Lines are applicable to the Left Channel only.


JK6002
PHONES
Rch
JK2000
SUB +B
DVD AC2
SUB AC2
DVD AC1
SUB AC1
SYS 6V
D.GND
SURR Rch
GND
SURR Lch
FRONT Rch
FRONT Lch
OUTPUT GND
OUTPUT GND
CENTER
GND
SUB WOOFER
GND
CASE GND
FL1
FL2
P CONT
MUTE H
SYNC
DC DET
TO ACTIVE
SUB WOOFER
IC2803
C0DBEZG00021
REGULATOR
VO
PVCC
VCC
GND
D2809-2811,2831
Q2805,2806
REGULATOR
IC8111
C0CBCBD00018
POWER SUPPLY
VO
V IN
CONT
GND
QR8111,8112
P.SUPPLY
CONTROL
IC2802
C0CBADG00023
REGULATOR
VOUT
V IN
GND
IC2801
C0DAAZG00012
DC-DC CONVERTER
VOUT
VCC
STBY
GND
+B
-B
Q2801
POWER
SUPPLY
D2827
D2822
Q2813,D2823
REGULATOR
Q2803,2804,
D2804-2807
REGULATOR/
STABILIZER
Q2814,D2824
REGULATOR
Q2816,D2830
REGULATOR
D2826
Q2809,D2818
REGULATOR
D2812-2817
Q2807,2808
REGULATOR/
STABILIZER
FP2000
Q2818
DC IN
DET.
D2851
D2852
D2850
D2853
Q2030
MOTOR
DRIVE
IC904
C0GAH0000002
MOTOR DRIVE(LOADING)
LOADING
MOTOR
DRIVE
CONTROL
V REF
VCC
GND
S902
S901
D6010
LED
DRIVE
Q6074
Q2029
LED
DRIVE
D6000
FL6000
FL DISPLAY
P1
P17
G10
G1
6-9,11,13-15,17,18,
20,32,34,36,37,39,40
5,10,12,16,19,21,
22,24,30,31,33,35,38,41
12,13,16,17,19,21,25,
27,28,30-32,34,36-39
14,18,20,22-24,
26,29,33,35
X OUT
X IN
FLO0
IC6000
C0HBB0000044
DISPLAY DRIVER
FLD DA
FLD CLK
FLD CS
FLD RST
VCC
GND
-VP
KEY SWITCH
(S6011-6014)
KEY SWITCH
(S6000-6005)
P CONT
KEY1
KEY2
MUTE H
SYNC
DC DET
TRY OPEN
TRY CLOSE
TRY CCW
TRY CW
BRAKE H
DVD P CONT
IC2018
C2CBHG000168
SYSTEM CONTROL
VSS
VSS
AVSS

SA-HT840EB BLOCK DIAGRAM

FL P.C.B.

Ref No.	IC6000																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	-22.2	-10.2	1.7	0	1.8	1.8	4.2	4.6	3.5	0.4	-22.2	-22.2	-22.2	-19.9	-22.3	-19.9	-17.4	-19.9	-19.8	-19.9
STANDBY	0	0	0	0	0.6	0.6	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC6000																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-10.3	-19.9	-19.9	-19.9	-22.2	-19.9	-22.3	-22.3	-19.9	-19.9	-17.5	-22.3	-19.9	-19.8	-19.9	-22.3	-15.0	-12.7	-12.7	-22.3
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	Q6074																			
MODE	E	C	B																	
CD PLAY	0	8.1	-10.3																	
STANDBY	0	2.1	0																	

Scart P.C.B.

Ref No.	IC1001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	4.8	2.2	4.8	1.6	0	1.6	2.4	0	-	0	-	1.3	4.8	0	0	2.5	0	2.8	2.8	0
STANDBY	0	0	0	0	0	0	0	0	0	0	-	-0.2	0	0.2	0	0.2	0	0.2	0.2	0
Ref No.	IC1001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34						
CD PLAY	3.4	3.3	0	3.4	3.4	0	1.7	1.7	0	1.6	1.5	0	2.2	4.8						
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Ref No.	IC1003																			
MODE	1	2	3	4	5	6														
CD PLAY	0	2.4	4.8	2.4	0	2.4														
STANDBY	0	0.1	0	0	0	-0.1														
Ref No.	Q1001				Q1004				Q1005				Q1006				Q1007			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	1.1	0	0.4		0	12.6	0		12.0	13.0	12.6		0	0.1	4.8		12.0	12.0	0.1	
STANDBY	0	0	0		0	12.6	0		12.3	12.7	12.7		0	12.2	0		12.3	-	12.3	
Ref No.	Q1008								Q1010				Q1101				Q1201			
MODE	1	2	3	4	5	6			E	C	B		E	C	B		E	C	B	
CD PLAY	4.8	4.7	4.8	0	0	0			0.4	0	1.1		0	0	-4.6		0	0	-4.6	
STANDBY	0	0	0	0	0	0			12.7	13.1	13.1		0	0	0.1		0	0	0.1	

Motor P.C.B.

Ref No.	IC904																			
MODE	1	2	3	4	5	6	7	8	9											
CD PLAY	4.7	8.0	0.6	8.0	0.1	8.0	0.6	2.7	4.7											
STANDBY	0	1.8	0.8	1.8	0	2.1	0.9	4.9	0											

Ref No.	IC2006																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	4.7	2.2	2.4	1.6	4.7	1.6	0	2.2	2.2	0	2.2	2.2	1.6	1.6	1.6	2.2				
STANDBY	0	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0				
Ref No.	IC2009									IC2010										
MODE	1	2	3	4	5	6				1	2	3	4	5	6	7	8			
CD PLAY	0	1.4	4.7	2.1	0	2.1				0	0	0	-6.8	0	0	0	7.0			
STANDBY	0	0	0	0.2	0	0.2				0.5	0.5	0	0.2	0	0.5	0.5	0.3			
Ref No.	IC2011																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	-	-	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0.2	0.2	0	0	0	0.2	0	0.4	0	0.2	0	0.1	0	0	0	0	0
Ref No.	IC2011																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	-6.8	2.1	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0.4	0.2	0.1	0.1	0	0.2	0.1	0	0.1	0	0	0.1	0
Ref No.	IC2011																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	-6.9	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0.2	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0
Ref No.	IC2011																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2013																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-6.8	0	0	0	7.0												
STANDBY	0.6	0.5	0	0.2	0	0.6	0.6	0.3												
Ref No.	IC2014																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0	-6.8	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.3	0.2	0	0	0
Ref No.	IC2015																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-6.8	0	0	0	7.0												
STANDBY	0.5	0.4	0	0.2	0	0	0	0.3												
Ref No.	IC2018																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.1	4.7	4.7	4.7	0	0	4.6	0	0	0	0	4.7	2.4	0	2.3	4.7	4.7	4.7	2.1	0
STANDBY	0	0	0	0.1	0	0	0	0	0	0	0	4.9	2.5	0	2.4	4.9	4.9	4.8	2.7	0
Ref No.	IC2018																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	4.7	0	0	0	0	4.7	4.7	4.7	4.7	0	0	0	4.6	0	4.0	4.4	4.6	0	4.6
STANDBY	0	4.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	0
Ref No.	IC2018																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	0	4.6	0	0.1	0	0	0	0	0	0	4.7	0	0	0	4.6	4.6	4.6	4.5	4.7	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC2018																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	4.7	4.7	0	0	0	0	4.6	0	4.4	4.7	4.7	2.5	0	0	0	0	0	0	0
STANDBY	0	4.9	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0
Ref No.	IC2018																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	0	0	0	4.7	0	0	4.7	0	0	0	4.7	0	0.7	1.2	0.4	0	1.6	4.8	4.7	4.7
STANDBY	0	0	0	0	0	0	0	0	0	0	4.8	0	0.7	1.2	0.4	0	1.6	4.9	4.9	0
Ref No.	IC2019																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-	4.8	0	0	0	0	0	-												
STANDBY	-	4.9	0	0	0	0	0	-												
Ref No.	IC2020																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
CD PLAY	0	0	2.7	2.6	5.0	0	0	2.7	0	0	0	5.0	1.7	2.5	-	2.5				
STANDBY	0	0	0.2	0.2	0.3	0	0	0.2	0	0	0	0.3	0.1	0.2	-	0				
Ref No.	IC2601										IC2602									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
CD PLAY	0.7	0	0	-6.8	0	0	0	7.0			0	0	0	-6.8	0	0	0	7.0		
STANDBY	0	0.1	0	0.2	0	0	0	0.3			0	0.1	0	0.2	0	0	0	0.3		
Ref No.	IC2801							IC2802					IC2803							
MODE	1	2	3	4	5			1	2	3			1	2	3	4	5			
CD PLAY	16.1	6.1	0	1.0	3.7			6.1	0	5.0			0.8	3.0	0	1.4	5.0			
STANDBY	0.5	0	0	0	0			0	0	0			0	0	0	0	0			
Ref No.	Q2000				Q2003				Q2004				Q2005				Q2006			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	4.6	0		0	2.2	0		0	0	4.5		0	2.2	0		1.1	0	0.5	
STANDBY	0	4.9	0		0	0.1	0		0	0	0		0	0.1	0		0	0	0	
Ref No.	Q2007				Q2026				Q2028				Q2029				Q2030			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	1.1	0	0.5		0	-4.6	0		0.1	0.1	3.9		0	0.1	3.4		0.1	0.1	4.5	
STANDBY	0	0	0		0	0.1	0		0	0	0		0	3.3	0		0	4.9	0	
Ref No.	Q2100								Q2102								Q2103			
MODE	1	2	3	4	5	6			1	2	3	4	5	6			E	C	B	
CD PLAY	0	-4.6	0	0	-4.6	0			0	-4.6	0	0	-4.6	0			1.8	1.7	0	
STANDBY	0	0.1	0	0	0.1	0			0	0.1	0	0	0.1	0			0	0.1	0	
Ref No.	Q2104								Q2105					Q2200						
MODE	1	2	3	4	5	6			E	C	B			1	2	3	4	5	6	
CD PLAY	0	0.7	0	0	0.7	0			0	-4.4	0			0	-4.4	0	0	-4.4	0	
STANDBY	0	0.1	0	0	0.1	0			0	0.1	0			0	0.1	0	0	0.1	0	

Ref No.	Q2201				Q2301				Q2302											
MODE	E	C	B		E	C	B		1	2	3	4	5	6						
CD PLAY	0	-4.6	0		1.2	1.2	0		0	0.7	0	0	0.7	0						
STANDBY	0	0.1	0		0	0.1	0		0	0.1	0	0	0.1	0						
Ref No.	Q2306							Q2500				Q2600								
MODE	1	2	3	4	5	6		E	C	B		E	C	B						
CD PLAY	0	0.6	0	0	0.6	0		2.1	2.1	0		2.2	2.1	0						
STANDBY	0	0.1	0	0	0.1	0		0	0.1	0		0	0.1	0						
Ref No.	Q2601							Q2604				Q2605				Q2607				
MODE	1	2	3	4	5	6		E	C	B		E	C	B		E	C	B		
CD PLAY	0	0.7	0	0	0.7	0		0	0	0.7		2.0	2.0	0		-0.7	7.0	0		
STANDBY	0	0.1	0	0	0.1	0		0	0	0.1		0	0.1	0		0.2	0.3	0		
Ref No.	Q2608				Q2609				Q2701				Q2801				Q2803			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0.7		2.0	2.0	0		0	-4.6	0		16.2	-3.0	16.1		14.0	9.3	14.5	
STANDBY	0.1	0	0.1		0	0.1	0		0	0.1	0		0.5	0.2	0.5		0	0.3	0.2	
Ref No.	Q2804				Q2805				Q2806				Q2807				Q2808			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	8.6	14.0	9.2		4.3	5.4	4.9		6.1	5.0	5.4		-6.8	-13.8	-7.4		0	-7.4	-0.6	
STANDBY	0	0	0.5		0	0	0		0	0	0		0.2	-0.1	-0.1		0	-0.1	0.2	
Ref No.	Q2809				Q2813				Q2814				Q2816				Q2818			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-22.4	-39.6	-23.0		9.3	5.6	5.0		7.0	15.6	7.5		10.0	15.7	10.4		0	4.7	-3.0	
STANDBY	0	-0.4	-0.4		0.3	0.3	0.3		0.3	0.5	0.5		0.5	0.5	0.5		0	0.7	0.2	